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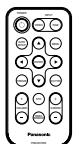
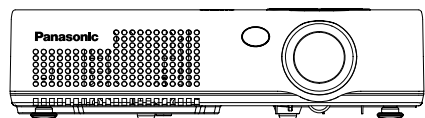
Panasonic®

LCD Projector Commercial Use

Operating Instructions

ENGLISH

Model No. **PT-LM1U**



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Before operating this product, please read the instructions carefully and save this manual for future use.

Dear Panasonic Customer:

This instruction booklet provides all the necessary operating information that you might require. We hope it will help you to get the most out of your new product, and that you will be pleased with your Panasonic LCD projector.

The serial number of your product may be found on its bottom. You should note it in the space provided below and retain this booklet in case service is required.

Model number: **PT-LM1U**

Serial number: _____

IMPORTANT SAFETY NOTICE

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Power Supply: This LCD Projector is designed to operate on 100 V – 240 V, 50 Hz/60 Hz AC, house current only.

CAUTION: The AC power cord which is supplied with the projector as an accessory can only be used for power supplies up to 125 V, 7 A. If you need to use higher voltages or currents than this, you will need to obtain a separate 250 V power cord. If you use the accessory cord in such situations, fire may result.



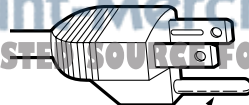
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.

CAUTION:

This equipment is equipped with a three-pin grounding-type power plug. Do not remove the grounding pin on the power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.



Do not remove

WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION: To assure continued compliance, use only shielded interface cables when connecting to computers or peripheral devices.

Any unauthorized changes or modifications to this equipment will void the users authority to operate.

WARNING:

- Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.
- For permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring;
- For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Declaration of Conformity

Model Number: PT-LM1U
 Trade Name: **Panasonic**
 Responsible party: Matsushita Electric Corporation of America.
 Address: One Panasonic Way Secaucus New Jersey 07094
 Telephone number: 1-800-528-8601 or 1-800-222-0741
 Email: pbtsservice@panasonic.com

This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Precautions with regard to safety

WARNING

If you notice smoke, strange smells or noise coming from the projector, disconnect the power cord plug from the wall outlet.

- Do not continue to use the projector in such cases, otherwise fire or electric shocks could result.
- Check that no more smoke is coming out, and then contact an Authorized Service Center for repairs.
- Do not attempt to repair the projector yourself, as this can be dangerous.

Do not install this projector in a place which is not strong enough to take the full weight of the projector.

- If the installation location is not strong enough, it may fall down or tip over, and severe injury or damage could result.

Installation work (such as ceiling suspension) should only be carried out by a qualified technician.

- If installation is not carried out correctly, there is the danger that injury or electric shocks may occur.

If foreign objects or water get inside the projector, or if the projector is dropped or the cabinet is broken, turn off the power and disconnect the power cord from the wall outlet.

- Continued use of the projector in this condition may result in fire or electric shocks.
- Contact an Authorized Service Center for repairs.

Do not overload the wall outlet.

- If the power supply is overloaded (for example, by using too many adapters), overheating may occur and fire may result.

Do not remove the cover or modify it in any way.

- High voltages can cause fire or electric shocks.
- For any inspection, adjustment and repair work, please contact an Authorized Service Center.

Clean the power cord plug regularly to prevent it from becoming covered in dust.

- If dust builds up on the power cord plug, the resulting humidity can damage the insulation, which could result in fire. Pull the power cord out from the wall outlet and wipe it with a dry cloth.
- If not using the projector for an extended period of time, pull the power cord plug out from the wall outlet.

Do not do anything that might damage the power cord or the power cord plug.

- Do not damage the power cord, make any modifications to it, place it near any hot objects, bend it excessively, twist it, pull it, place heavy objects on top of it or wrap it into a bundle.
- If the power cord is used while damaged, electric shocks, short-circuits or fire may result.
- Ask an Authorized Service Center to carry out any repairs to the power cord that might be necessary.

Do not handle the power cord plug with wet hands.

- Failure to observe this may result in electric shocks.

Insert the power cord plug securely into the wall outlet.

- If the plug is not inserted correctly, electric shocks or overheating could result.
- Do not use plugs which are damaged or wall outlets which are coming loose from the wall.

Do not place the projector on top of surfaces which are unstable.

- If the projector is placed on top of a surface which is sloped or unstable, it may fall down or tip over, and injury or damage could result.

Do not place the projector into water or let it become wet.

- Failure to observe this may result in fire or electric shocks.

Do not place liquid containers on top of the projector.

- If water spills onto the projector or gets inside it, fire or electric shocks could result.
- If any water gets inside the projector, contact an Authorized Service Center.

Do not insert any foreign objects into the projector.

- Do not insert any metal objects or flammable objects into the projector or drop them onto the projector, as doing so can result in fire or electric shocks.

Keep the batteries out of the reach of infants.

- If the batteries are swallowed, death by suffocation may result. If you believe that the batteries may have been swallowed, seek medical advice immediately.

Do not allow the + and - terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.

- Failure to observe this may cause the batteries to leak, overheat, explode or catch fire.
- Store the batteries in a plastic bag and keep them away from metallic objects.

During a thunderstorm, do not touch the projector or the cable.

- Electric shocks can result.

Do not use the projector in a bath or shower.

- Fire or electric shocks can result.

Do not look into the lens while the projector is being used.

- Strong light is emitted from the projector's lens. If you look directly into this light, it can hurt and damage your eyes.
- Be especially careful not to let young children look into the lens. In addition, disconnect the power cord when you are away from the projector.

Do not place your hands or other objects close to the air outlet port.

- Heated air comes out of the air outlet port. Do not place your hands or face, or objects which cannot withstand heat close to this port, otherwise burns or damage could result.

Replacement of the lamp unit should only be carried out by a qualified technician.

- The lamp unit has high internal pressure. If improperly handled, explosion might result.
- The lamp unit can easily become damaged if struck against hard objects or dropped, and injury or malfunctions may result.

When replacing the lamp, allow it to cool for at least one hour before handling it.

- The lamp cover gets very hot, and contact with it can cause burns.

Before replacing the lamp, be sure to disconnect the power cord from the wall outlet.

- Electric shocks or explosions can result if this is not done.

Caution

Do not cover the air inlet or the air outlet.

- Doing so may cause the projector to overheat, which can cause fire or damage to the projector.
- Do not place the projector in narrow, badly ventilated places such as closets or bookshelves.
- Do not place the projector on cloth or papers, as these materials could be drawn into the air inlet port.

Do not set up the projector in humid or dusty places or in places where the projector may come into contact with smoke or steam.

- Using the projector under such conditions may result in fire or electric shocks.

When disconnecting the power cord, hold the plug, not the cord.

- If the power cord itself is pulled, the cord will become damaged, and fire, short-circuits or serious electric shocks may result.

Always disconnect all cables before moving the projector.

- Moving the projector with cables still attached can damage the cables, which could cause fire or electric shocks to occur.

Do not place any heavy objects on top of the projector.

- Failure to observe this may cause the projector to become unbalanced and fall, which could result in damage or injury.

Do not short-circuit, heat or disassemble the batteries or place them into water or fire.

- Failure to observe this may cause the batteries to overheat, leak, explode or catch fire, and burns or other injury may result.

When inserting the batteries, make sure the polarities (+ and -) are correct.

- If the batteries are inserted incorrectly, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Use only the specified batteries.

- If incorrect batteries are used, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Insulate the battery using tape or similar before disposal.

- If the battery comes into contact with metallic objects or other batteries, it may catch fire or explode.

Do not put your weight on this projector.

- You could fall or the projector could break, and injury may result.
- Be especially careful not to let young children climb onto the projector.

If not using the projector for an extended period of time, disconnect the power cord plug from the wall outlet.

- If dust builds up on the power cord plug, the resulting humidity may damage the insulation, which could result in fire.
- This projector continues to draw approximately 5 W of power even when the power is turned off.

Disconnect the power cord plug from the wall outlet as a safety precaution before carrying out any cleaning.

- Electric shocks can result if this is not done.

Ask an Authorized Service Center to clean inside the projector at least once a year.

- If dust is left to build up inside the projector without being cleaned out, it can result in fire or problems with operation.
- It is a good idea to clean the inside of the projector before the season for humid weather arrives. Ask your nearest Authorized Service Center to clean the projector when required. Please discuss with the Authorized Service Center regarding cleaning costs.




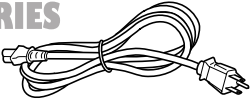
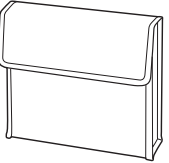
We are constantly making efforts to preserve and maintain a clean environment. Please take non repairable units back to your dealer or a recycling company.

NOTICE:

- This product has a High Intensity Discharge (HID) lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org>.

Accessories

Check that all of the accessories shown below have been included with your projector.

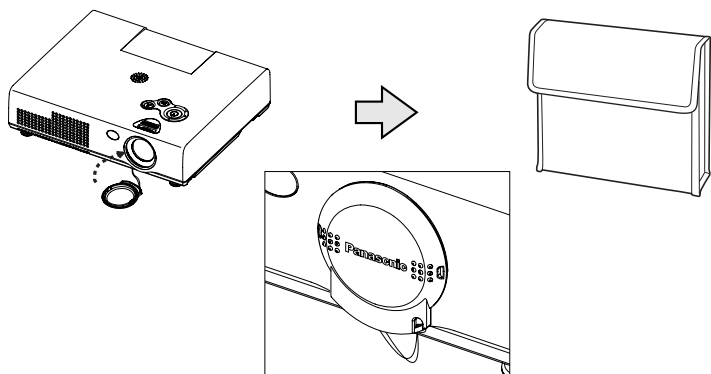
<p>Card remote control unit (TNQE239 x1)</p> 	<p>Lithium battery for remote control unit (CR2025 x1)</p> 	<p>RGB signal cable [1.8 m (5'10"), K1HA15DA0002 x1]</p> 
<p>Power cord (K2CG3DR00005 x 1)</p> 	<p>Softcase (TPEP012 x 1)</p> 	

Before use

Caution when moving the projector

Be sure to attach the lens cover before moving the projector.

The projection lens is extremely susceptible to vibration and shocks. When moving the projector, use the accessory softcase. When placing the projector inside the softcase, position it so that the lens is facing upward.



Attach the lens cover so that the direction of the “Panasonic” logo becomes as shown in the figure above.

Cautions regarding setting-up

Avoid setting up in places which are subject to vibration or shocks.

The internal parts can be damaged, which may cause malfunctions or accidents.

Do not set up the projector near high-voltage power lines or near motors.

The projector may be subject to electromagnetic interference.

If installing the projector to the ceiling, ask a qualified technician to carry out all installation work. You will need to purchase the separate installation kit (Model No.ET-PKM1). Furthermore, all installation work should only be carried out by a qualified technician.

If using this projector at high elevations (above 1 400 m), set the “FAN CONTROL” to “HIGH”. (Refer to page 43.)

Failure to observe this may result in malfunctions.

Notes on use

In order to get the best picture quality

Draw curtains or blinds over any windows and turn off any fluorescent lights near the screen to prevent outside light or light from indoor lamps from shining onto the screen.

Do not touch the surfaces of the lens with your bare hands.

If the surface of the lens becomes dirty from fingerprints or anything else, this will be magnified and projected onto the screen. Moreover, when not using the projector, retract the lens and then cover it with the lens cover.

Screen

Do not apply any volatile substances which may cause discoloration to the screen, and do not let it become dirty or damaged.

Lamp

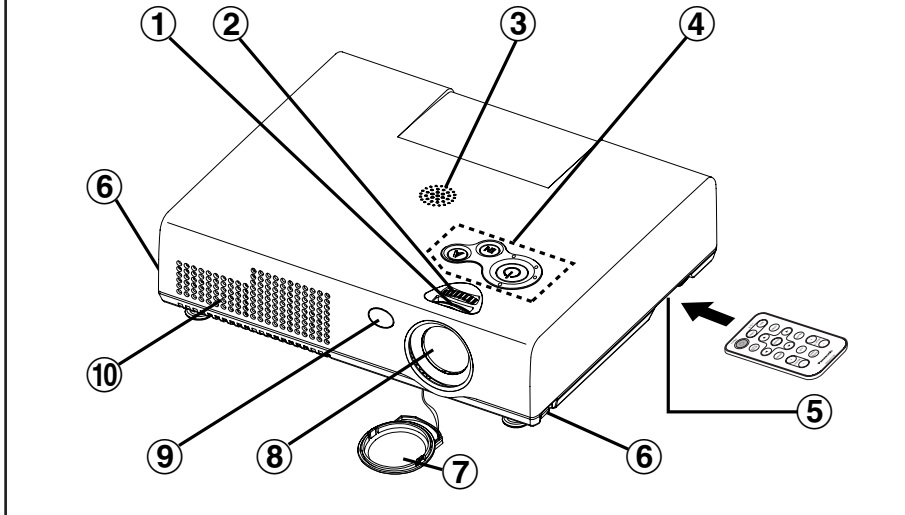
The lamp may need to be replaced earlier due to variables such as individual lamp characteristics, usage conditions and the installation environment, especially when the projector is subjected to continuous use for more than 10 hours or the power is frequently turned on and off.

Liquid crystal panel

The liquid crystal panel of the projector is built with very high precision technology to provide fine picture details. Occasionally, a few non-active pixels may appear on the screen as fixed points of blue, green or red. Please note that this does not affect the performance of your LCD.

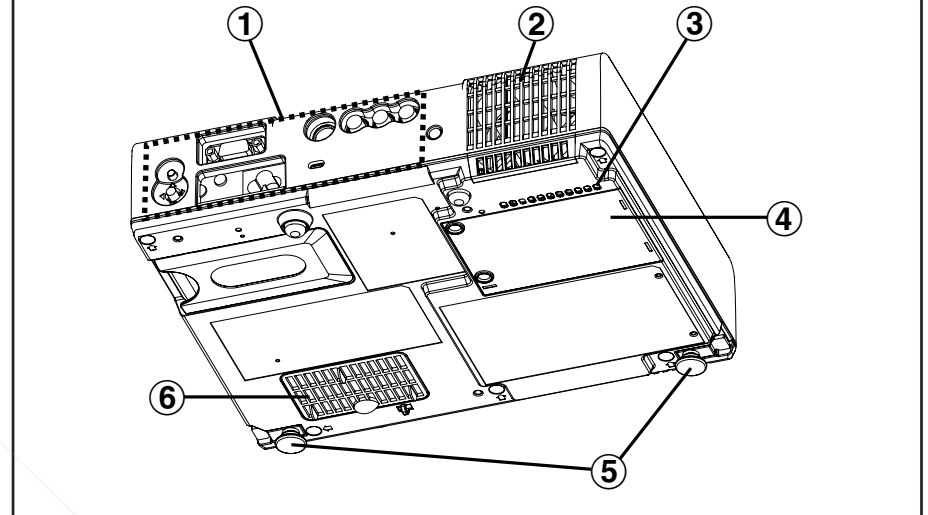
Location and function of each part

Projector <Top, right and front>



- ① **Focus ring** (page 23)
- ② **Zoom ring** (page 23)
- ③ **Speaker**
- ④ **Projector control panel (Top)** (page 14)
- ⑤ **Remote control unit holder**
Store the remote control unit as shown in the figure above.
- ⑥ **Leg adjuster buttons (L/R)** (page 23)
These buttons are used to unlock the front adjustable legs. Press to adjust the angle of tilt of the projector.
- ⑦ **Lens cover**
- ⑧ **Projection lens**
- ⑨ **Remote control signal receptor** (page 21)
- ⑩ **Air inlet port**
Do not cover this port.

Projector <Back and bottom>



- ① **Connector panel** (page 16)
- ② **Air outlet port**
Do not cover this port.
- ③ **Air inlet port**
Do not cover this port.
- ④ **Lamp unit holder** (page 50)
- ⑤ **Front adjustable legs (L/R)** (page 23)
- ⑥ **Air inlet port, Air filter** (page 49)
Do not cover this port.

NOTE:

- During projection of an image, the cooling fan will operate, emitting a small noise as it operates. Turning the lamp on or off will cause this noise to increase a little.
- By using the "OPTION2" menu to set "LAMP POWER" to "LOW", the operating sound of the fan can be reduced. (Refer to page 43.)

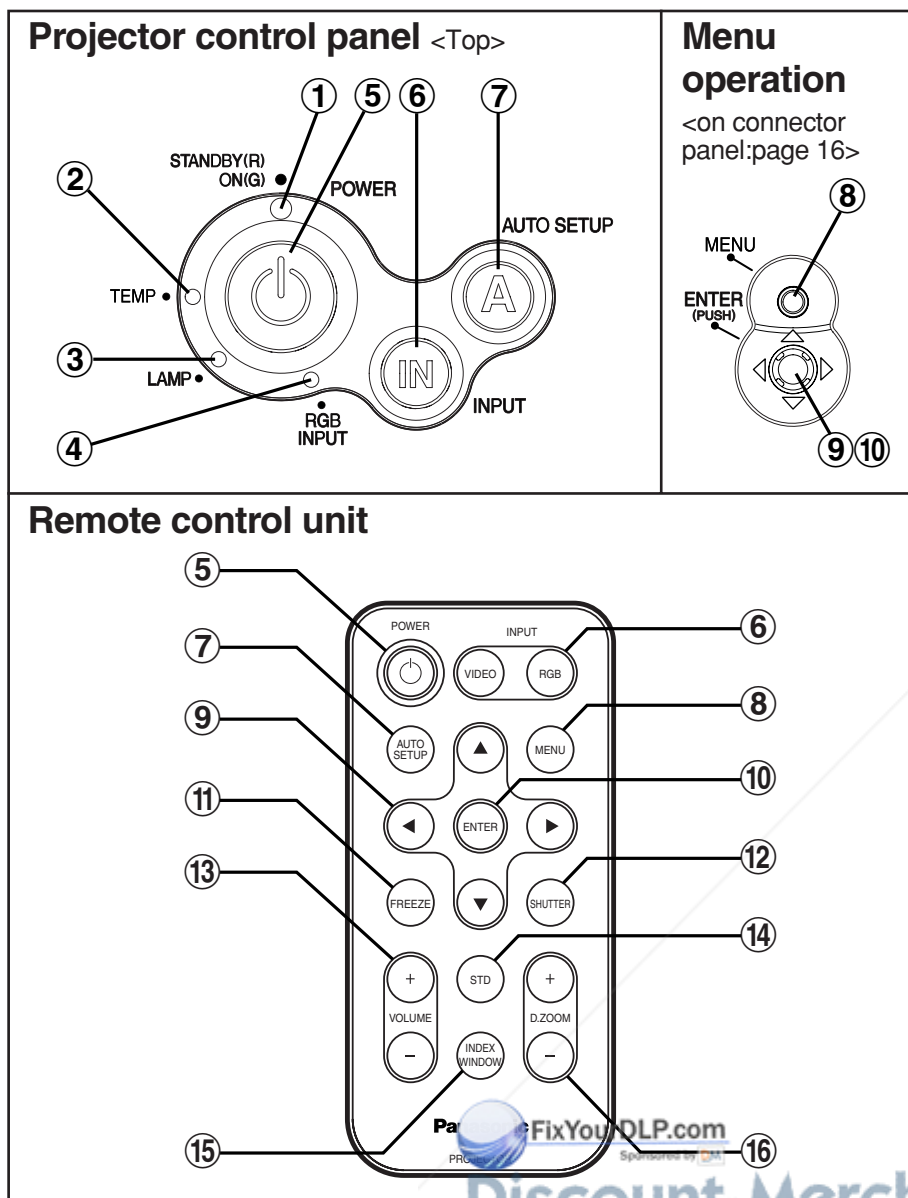
WARNING

- Do not place your hands or other objects close to the air outlet port.
- Heated air comes out of the air outlet port. Do not place your hands or face, or objects which cannot withstand heat close to this port, otherwise burns or damage could result.



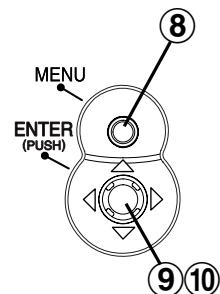
Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES



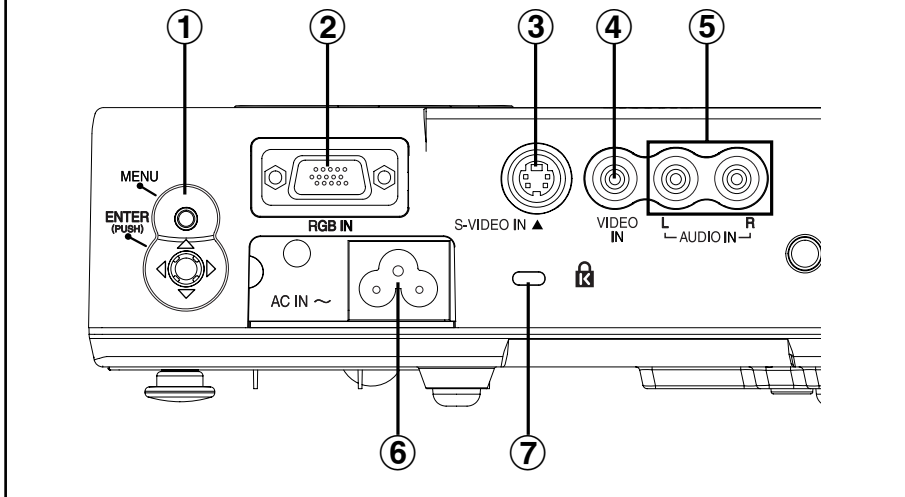
Menu operation

<on connector panel:page 16>



- ① **Power indicator** (pages 22, 24 and 25)
This indicator illuminates red when the projector is in standby mode, and it illuminates green when a picture starts to be projected.
- ② **TEMP indicator** (page 47)
This indicator illuminates if an abnormally high temperature is detected inside the projector or around it. If the temperature rises above a certain level, the power supply will be turned off automatically and the indicator will flash.
- ③ **LAMP indicator** (page 48)
This indicator illuminates when it is time to replace the lamp unit. It flashes if a circuit abnormality is detected.
- ④ **RGB INPUT indicator**
This indicator illuminates when a signal is being input to the RGB IN connector.
- ⑤ **POWER button** (pages 22 and 24)
- ⑥ **INPUT buttons** (page 23)
These buttons are used to switch the input signals from the connected equipment.
- ⑦ **AUTO SETUP button** (pages 23 and 26)
If this button is pressed while a picture is being projected, the projection settings will be adjusted automatically in accordance with the signal being input. In addition, the angle of tilt of the projector will be automatically detected and adjusted in order to correct any keystone distortion.
- ⑧ **MENU button** (pages 30 and 32)
This button is used to display the "MAIN MENU". When a menu screen is being displayed, this button can be used to return to a previous screen or to clear the screen.
- ⑨ **Arrow (▲▼◀ and ▶) buttons** (page 32)
These buttons are used to select and adjust items in the on-screen menus.
- ⑩ **ENTER button** (page 32)
This button is used to accept and to activate items selected in the on-screen menus.
- ⑪ **FREEZE button** (page 27)
This button is used to momentarily freeze projection so that a still picture is displayed.
- ⑫ **SHUTTER button** (page 27)
This button is used to momentarily turn off the picture and sound.
- ⑬ **VOLUME +/- buttons** (page 28)
These buttons are used to adjust the volume of the sound output from the projector's built-in speaker. Refer to page 31 for details on how to adjust the volume using the buttons on the projector control panel.
- ⑭ **STD (standard) button** (page 33)
This button is used to reset the projector adjustment values to the factory default settings.
- ⑮ **INDEX WINDOW button** (page 29)
This button can be used to split the image projection area into a still picture and a moving picture.
- ⑯ **D.ZOOM +/- buttons** (page 28)
These buttons are used to enlarge the projected image.

Connector panel



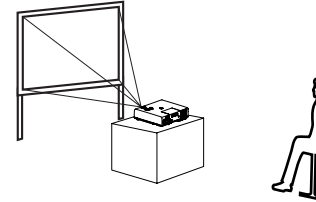
- ① **Menu operation (on connector panel)** (page 14)
- ② **RGB IN connector** (pages 19 and 20)
This connector is used to input RGB signals and YPBPR signals.
- ③ **S-VIDEO IN connector** (pages 20 and 39)
This connector is used to input signals from a S-VIDEO-compatible equipment such as a video deck. The connector is S1 signal compatible, and it automatically switches between 16:9 and 4:3 aspect ratios in accordance with the type of signal being input.
- ④ **VIDEO IN jack** (page 20)
This jack is used to input video signals from a video equipment such as a video deck.
- ⑤ **AUDIO IN L-R jacks** (pages 19 and 20)
- ⑥ **Power input socket (AC IN)** (page 22)
The accessory power cord is connected here.
Do not use any power cord other than the accessory power cord.
- ⑦ **Security lock**
This can be used to connect a commercially-available theft-prevention cable (manufactured by Kensington). This security lock is compatible with the Microsaver Security System from Kensington.

Setting-up

Projection methods

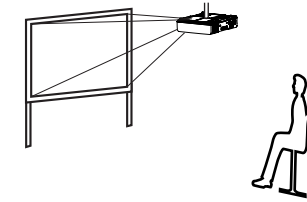
In way of installing projector, any one of the following four projection methods are used. Select whichever projection method matches the setting-up method. (The projection method can be set from the "OPTION2" menu. Refer to page 43 for details.)

• Front-desk projection



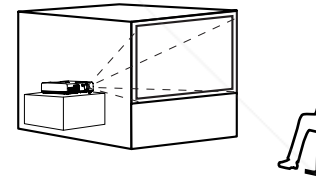
Menu items	Setting
FRONT/REAR	FRONT
DESK/CEILING	DESK

• Front-ceiling projection



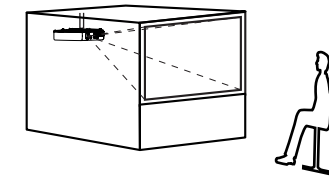
Menu items	Setting
FRONT/REAR	FRONT
DESK/CEILING	CEILING

• Rear-desk projection (Using a translucent screen)



Menu items	Setting
FRONT/REAR	REAR
DESK/CEILING	DESK

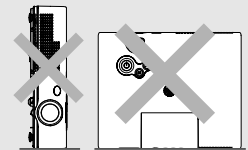
• Rear-ceiling projection (Using a translucent screen)



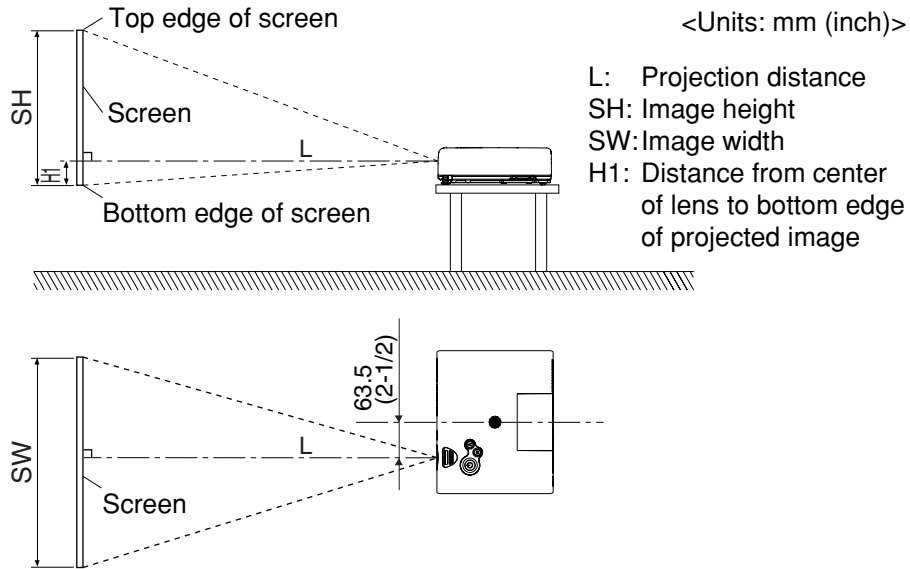
Menu items	Setting
FRONT/REAR	REAR
DESK/CEILING	CEILING

NOTE:

- You will need to purchase the separate ceiling bracket (ET-PKM1) when using the ceiling installation method.
- If you set up the projector vertically, it may cause to damage the projector.
- It is recommended that you set up the projector in a place that is tilted at less than $\pm 30^\circ$. Setting up the projector in places that are tilted at more than $\pm 30^\circ$ may cause malfunctions.



Projector position



Projection distances

Screen size (4:3)			Projection distance (L)		Height position (H1)
Diagonal length	Height (SH)	Width (SW)	Wide (LW)	Telephoto (LT)	
0.84 m(33")	0.50 m(1'7")	0.67 m(2'2")	-	1.2 m(3'11")	0.07 m(2-3/4")
1.01 m(40")	0.61 m(2')	0.81 m(2'8")	1.2 m(3'11")	1.4 m(4'7")	0.09 m(3-17/32")
1.27 m(50")	0.76 m(2'6")	1.02 m(3'4")	1.5 m(4'11")	1.8 m(5'10")	0.11 m(4-5/16")
1.52 m(60")	0.91 m(3')	1.22 m(4')	1.9 m(6'2")	2.1 m(6'10")	0.13 m(5-3/32")
1.77 m(70")	1.07 m(3'6")	1.42 m(4'8")	2.2 m(7'2")	2.5 m(8'2")	0.15 m(5-7/8")
2.03 m(80")	1.22 m(4')	1.63 m(5'4")	2.5 m(8'2")	2.9 m(9'6")	0.17 m(6-11/16")
2.28 m(90")	1.37 m(4'6")	1.83 m(6')	2.8 m(9'2")	3.2 m(10'5")	0.20 m(7-27/32")
2.54 m(100")	1.52 m(5')	2.03 m(6'8")	3.1 m(10'2")	3.6 m(11'9")	0.22 m(8-21/32")
3.81 m(150")	2.29 m(7'6")	3.05 m(10')	4.6 m(15'1")	5.4 m(17'8")	0.33 m(12-31/32")
5.08 m(200")	3.05 m(10')	4.06 m(13'4")	6.2 m(20'4")	7.3 m(23'11")	0.44 m(17-5/16")
6.35 m(250")	3.81 m(12'6")	5.08 m(16'8")	7.7 m(25'3")	9.1 m(29'10")	0.54 m(21-1/4")
7.62 m(300")	4.57 m(15')	6.10 m(20')	9.3 m(30'6")	10.9 m(35'9")	0.65 m(25-9/16")

NOTE:

- The dimensions in the table above are approximate.
- If you use the projection distance for the 16:9 screen, the 4:3 projection image overflows the screen at the top and bottom.
- For details about projected image distances, refer to page 59.

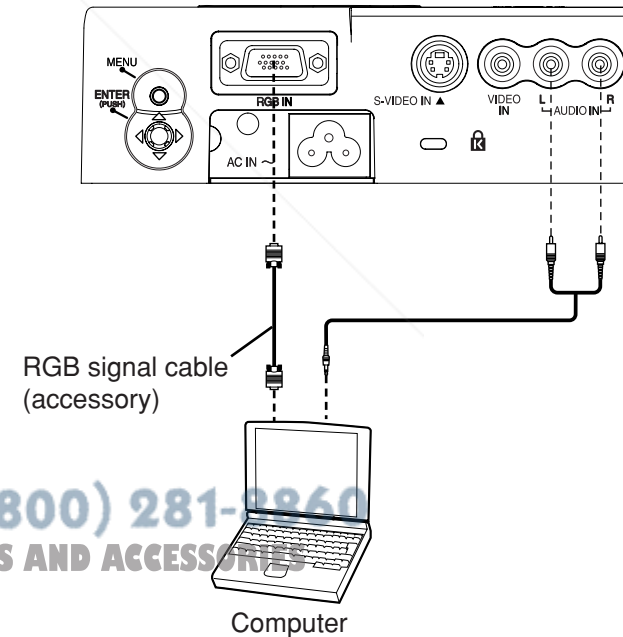
FixYourDLP.com
Sponsored by

Connections

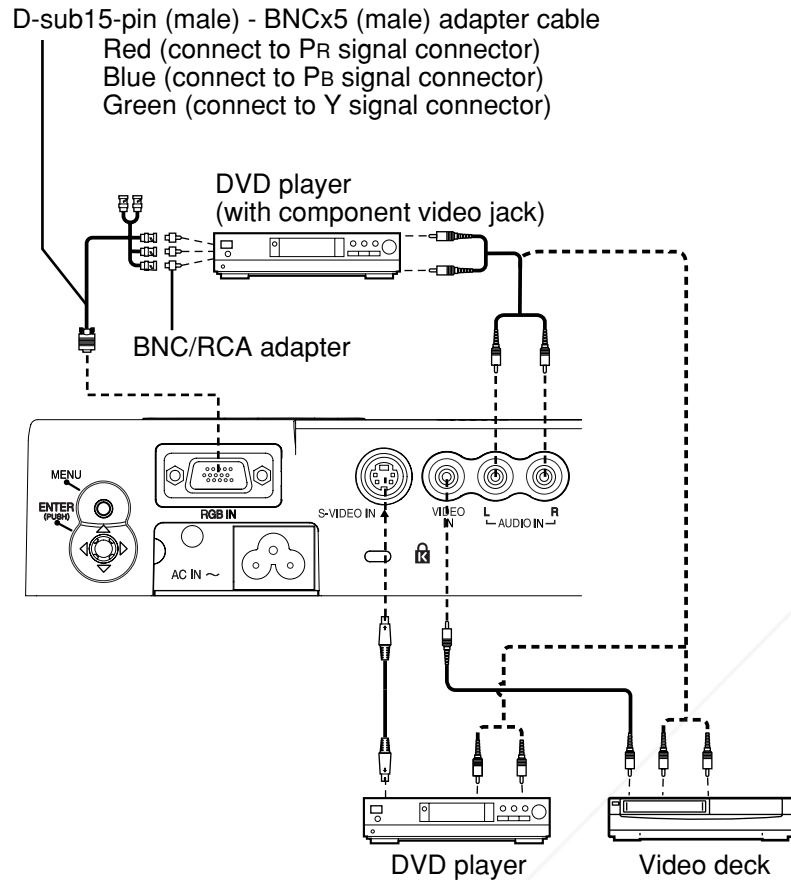
Notes on connections

- Read the instruction manual for each peripheral device carefully before connecting it.
- Turn off the power supply for all peripheral devices before making any connections.
- If the cables necessary for connection are not included with the peripheral device or available as an option, you may need to prepare a proper cable for the device concerned.
- If there is a lot of jitter in the video signal, the projected image may flicker. In such cases, it will be necessary to connect a TBC (time base corrector).
- Refer to the list on page 58 for details on compatible signals which can be input to the projector.
- Only one audio system circuit is available for the AUDIO IN L-R jacks, so if you change the audio input source, you will need to remove and insert the appropriate plugs.

Connecting to computer



Connecting to video equipment



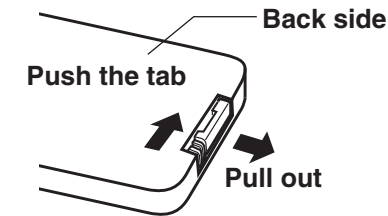
NOTE:

- If the signal cables are disconnected or if the power supply for the computer or video deck is turned off while "D.ZOOM"(digital zoom) or "INDEX WINDOW" is being used, these functions will be cancelled.

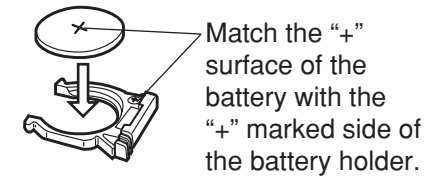
Preparation for the remote control unit

Insert the accessory lithium battery while making sure that the polarities are correct.

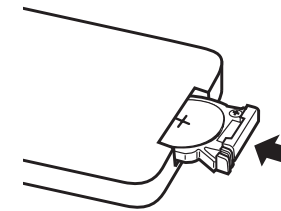
- ① While pushing the battery holder tab to the right, pull out the battery holder.



- ② Insert the battery into the battery holder so that the + side is facing upward.



- ③ Insert the battery holder.



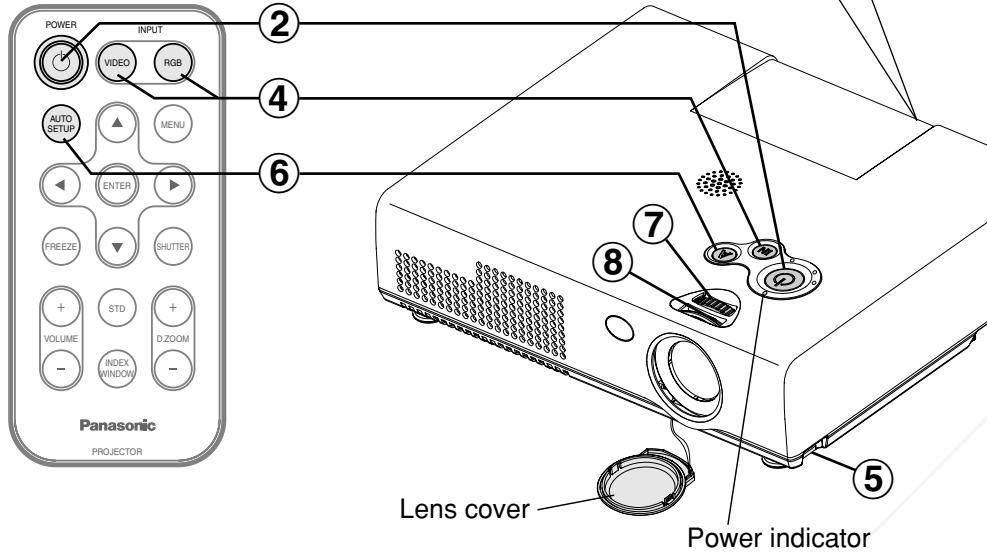
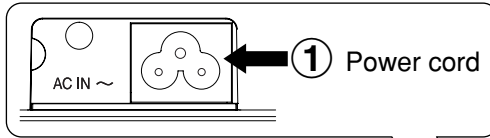
NOTE:

- Do not drop the remote control unit.
- Keep the remote control unit away from liquids.
- Remove the battery if not using the remote control unit for long periods.
- Use only CR2025 batteries as replacement batteries.
- If the remote control unit is held so that it is facing directly in front of the remote control signal receptor, the operating range is within approximately 7 m (23') from the surfaces of the receptor. Furthermore, the remote control unit can be operated from an angle of $\pm 30^\circ$ to the left or right and $\pm 15^\circ$ above or below the receptors.
- If there are any obstacles in between the remote control unit and the receptor, the remote control unit may not operate correctly.
- If strong light is allowed to shine onto the remote control signal receptor, correct projector operation may not be possible. Place the projector as far away from light sources as possible.
- If facing the remote control unit toward the screen to operate the projector, the operating range of the remote control unit will be limited by the amount of light reflection loss caused by the characteristics of the screen used.

Turning on the power

Before turning on the power

- 1, Ensure that all peripheral devices are connected properly.
- 2, Remove the lens cover.



1 Connect the accessory power cord to the AC IN socket.

- The power indicator on the projector will illuminate red.

2 Press the POWER button.

- The power indicator on the projector will flash green. After a short period, the indicator will illuminate green, and a picture will be projected.

3 Turn on the power of all connected devices.

- Start the play function of a device such as a DVD player.

NOTE:

- If the power cord was disconnected during projection when the projector was used the last time, projection will start after the power cord is connected (when "POWER MEMORY" in the "OPTION2" menu is set to "ON"). Refer to page 44 for details.
- A tinkling sound may be heard when the lamp unit is turned on, but this is not a sign of a malfunction.

4 Press the input select button to select the input signal.

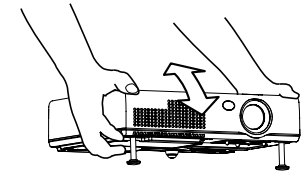
Input select buttons	IN	VIDEO	RGB
Changing signals			

- A picture will be projected in accordance with the selected input signal.
- When a YPbPr signal is being input, "YPbPr" will be displayed instead of "RGB".

Follow the procedure below when you set the projector up first, and when you change the setup place.

5 Adjusting the angle

- While pressing the adjuster buttons, adjust the forward/back angle of tilt of the projector. Adjust so that the projector is as vertical to the screen as possible.



6 Press the AUTO SETUP button to initiate automatic positioning.

- The tilt of the projector and the input signal will be detected and keystone distortion and the position of the image will be corrected. (Refer to page 26 for details.)



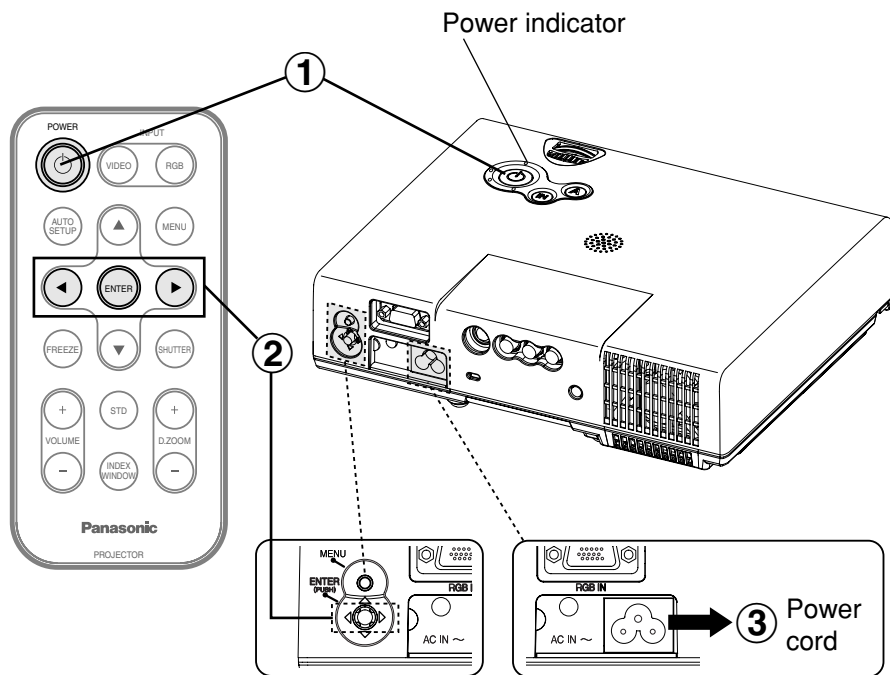
7 Adjusting the size

- Turn the zoom ring to adjust the size of the projected image.

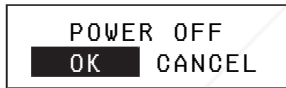
8 Adjusting the focus

- Turn the focus ring to adjust the focus of the projected image.

Turning off the power



1 Press the POWER button.
 • “POWER OFF” is displayed on the screen.



2 Press the ◀ or ▶ button to select “OK”, and then press the ENTER button.
 • The lamp unit will switch off and the picture will stop being projected. (The power indicator on the projector will illuminate orange while the cooling fan is still operating.)

3 Disconnect the power cord after the power indicator on the projector illuminates red.

NOTE:

- You can also turn off the power by pressing the POWER button twice or by holding it down for at least 0.5 seconds.
- When the projector is in standby mode (the power indicator on the projector is illuminated red), the projector continues to draw approximately 5 W of power even when the cooling fan has stopped.

Direct power off function

You can disconnect the power cord during projection or immediately after use and move the projector. The cooling fan will operate by the internal power supply to cool down the lamp.

- When this function is used, it may take more time for the lamp to turn back on again compared to when the lamp cools down with the power cord connected.
- Do not put the projector in a bag while the cooling fan is operating.

CAUTION

If not using the projector for an extended period of time, disconnect the power cord plug from the wall outlet.

- If dust builds up on the power cord plug, the resulting humidity may damage the insulation, which could result in fire.
- This projector continues to draw approximately 5 W of power even when the power is turned off.

Power indicator

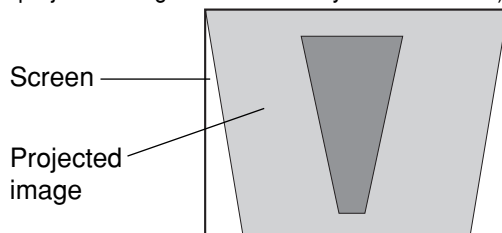
Power indicator status		Projector status
Red	Illuminated	The projector is in standby mode and image projection is possible by pressing the POWER button.
Green	Flashing	The projector is preparing for projection after the power is turned on while the power indicator is illuminated red. (After a short period, a picture will be projected.)
	Illuminated	A picture is being projected.
Orange	Illuminated	The lamp is cooling down after the power is turned off. (The cooling fan is operating.)
	Flashing	The projector is preparing for projection after the power is turned on while the power indicator is illuminated orange. (After a short period, a picture will be projected.)

Correcting keystone distortion and automatic positioning (AUTO SETUP)

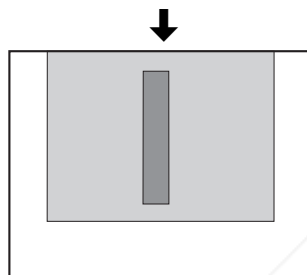
This projector detects its degree of tilt and the input signal. Keystone distortion and the position of the image can then be corrected automatically in accordance with the input signal.



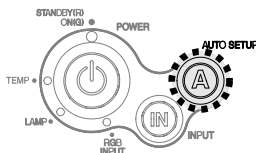
Press the AUTO SETUP button.
(When the projected image has caused keystone distortion)



- Automatic positioning will be carried out.



Projector control panel



NOTE:

- When RGB signals are being input, “DOT CLOCK”, and “CLOCK PHASE” will be adjusted automatically in addition to keystone distortion and the position of the image being corrected (except when the dot clock frequency is 100 MHz or higher). Refer to page 38 for details.
- If the edges of the projected image are indistinct, or if a dark picture is being projected, the automatic setting processing may stop automatically before it is complete. If this happens, project a different picture and then press the AUTO SETUP button again.
- Set “AUTO KEYSTN” in the “OPTION1” menu to “OFF” to prevent any deterioration of the picture as a result of keystone correction. (Refer to page 42.)

Turning off the picture and sound momentarily (SHUTTER)

The “SHUTTER” function can be used to momentarily turn off the picture and sound from the projector when the projector is not being used for short periods of time, such as during breaks in meetings or when carrying out preparation. The projector uses less power in “SHUTTER” mode than it does in normal projection mode.



Press the SHUTTER button.

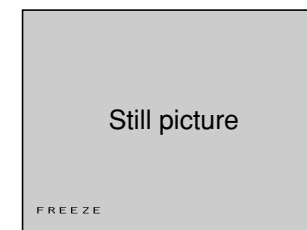
- The picture and sound will be turned off.
- Press any button on either the projector or remote control unit to return to normal operating mode.

NOTE:

- “SHUTTER” on the “MAIN MENU” is the same function.

Pausing a picture (FREEZE)

Press the FREEZE button.

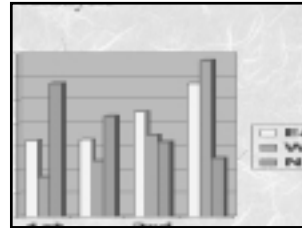
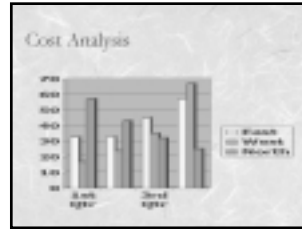


- The picture being projected will be paused.
- Press the FREEZE button again to cancel the still picture.

Enlarging the picture (D.ZOOM)



Press the D.ZOOM +/- button.



- The picture will then be enlarged to 1.5 times the normal size.

The remote control unit functions during D.ZOOM (digital zoom)

Press the ▲, ▼, ◀ and ▶ buttons to move the enlarged area which you want to project.

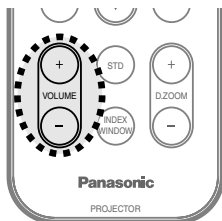
Press the D.ZOOM +/- buttons to change the enlargement ratio.

Press the MENU button to return to the normal screen.

NOTE:

- The enlargement ratio can be changed within the range of x1 to x2, in steps of 0.1. When RGB signals are being input, the enlargement ratio can be changed within the range of x1 to x3, except when the "FRAME LOCK" is set to "ON".
- If the type of signal being input changes while the digital zoom function is being used, the digital zoom function will be cancelled.

Adjusting the volume (VOLUME)



Press the VOLUME +/- button.

- Press the + button to raise the volume.
- Press the - button to lower the volume.

NOTE:

- You can also select "VOLUME" from the "MAIN MENU" to adjust the volume.

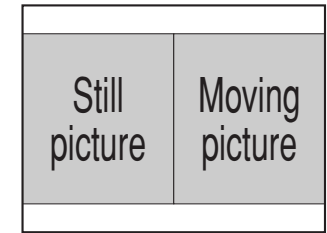
Displaying two screens (INDEX WINDOW)

This function lets you store a picture which is being projected into memory, so that you can display a still picture and a moving picture on the screen.



Press the INDEX WINDOW button.

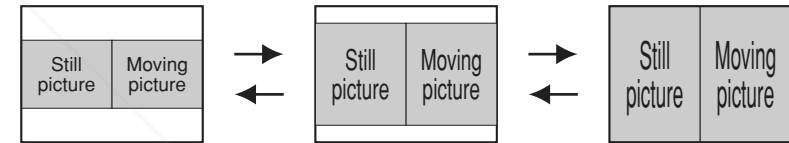
- The aspect ratio of the screen changes and the image is vertically elongated in comparison to a normal image.



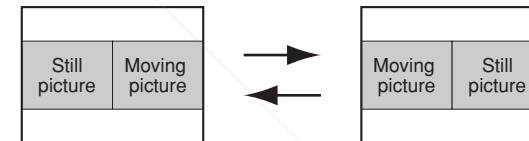
The remote control unit functions during INDEX WINDOW

Press the ▲ or ▼ button to select a screen size.

It can switch to three stages.



Press the ◀ or ▶ button to switch between the still picture screen and moving picture screen.



Press the ENTER button to capture the present moving picture in a still window.

Press the MENU button to return to the previous screen.

NOTE:

- When the screen size is changed, the picture's aspect ratio will also change. Make sure that you fully understand the notes on "ASPECT" on page 40 before using the "INDEX WINDOW" function.
- "INDEX WINDOW" on the "MAIN MENU" is the same function.

On-screen menus

Menu screens

The various settings and adjustments for this projector can be carried out by selecting the operations from on-screen menus.

The general arrangement of these menus is shown below.

MAIN MENU

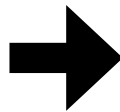
MENU	
↑	KEYSTONE
↓	PICTURE
⇐	POSITION
☐	INDEX WINDOW
■	SHUTTER
🎵	VOLUME
🗣️	LANGUAGE
🔒	OPTION1
🔒	OPTION2
🔒	SECURITY
↕	SELECT
↔	ENTER
↕	RETRN
↔	EXIT

- Press the MENU button to display the "MAIN MENU". Refer to page 32 for details on how to operate the on-screen menus.

KEYSTONE correction (page 34)

KEYSTONE	0	⇐	⇐
----------	---	---	---

- Keystone distortion of the on-screen display will not be corrected.



PICTURE menu (page 35)

When an RGB signal is being input

PICTURE	
PICTURE MODE (DYNAMIC) ▶	
CONTRAST	32
BRIGHT	32
SHARPNESS	0
COLOR TEMP.	(STANDARD) ▶
W-BAL R	32
W-BAL G	32
W-BAL B	32
AI	(ON) ▶
SIGNAL MODE	XGA
STANDARD	
↕	SELECT
↔	ADJ
↕	RETRN

When a YPbPr signal is being input

PICTURE	
PICTURE MODE (STANDARD) ▶	
CONTRAST	32
BRIGHT	32
COLOR	32
TINT	32
SHARPNESS	2
COLOR TEMP.	(STANDARD) ▶
AI	(ON) ▶
SIGNAL MODE	525P
STANDARD	
↕	SELECT
↔	ADJ
↕	RETRN

When an S-VIDEO/VIDEO signal is being input

PICTURE	
PICTURE MODE (STANDARD) ▶	
CONTRAST	32
BRIGHT	32
COLOR	32
TINT	32
SHARPNESS	2
COLOR TEMP.	(STANDARD) ▶
AI	(ON) ▶
TV-SYSTEM	(AUTO) ▶
STILL MODE	(OFF) ▶
STANDARD	
↕	SELECT
↔	ADJ
↕	RETRN

POSITION menu (page 38)

When an RGB/YPbPr signal is being input

POSITION	
POSITION	
DOT CLOCK	32
CLOCK PHASE	16
ASPECT	(4:3) ▶
RESIZING	(ON) ▶
FRAME LOCK	(OFF) ▶
STANDARD	
↕	SELECT
↔	ENTER
↕	RETRN

When an S-VIDEO/VIDEO signal is being input

POSITION	
POSITION	
ASPECT	(4:3) ▶
RESIZING	(ON) ▶
STANDARD	
↕	SELECT
↔	ENTER
↕	RETRN

INDEX WINDOW function (page 29)

SHUTTER function (page 27)

VOLUME adjustment

Press the ENTER button, and then press the ◀ or ▶ button to adjust the volume.

LANGUAGE menu (page 41)

LANGUAGE	
ENGLISH	
ENGLISH	
DEUTSCH	
FRANCAIS	
ESPAÑOL	
ITALIANO	
РУССКИЙ	
한국어	
中文	
↕	SELECT
↔	ENTER
↕	RETRN

OPTION1 menu (page 42)

OPTION1	
OSD	(ON) ▶
AUTO SIGNAL	(ON) ▶
AUTO KEYSTN	(ON) ▶
RGB/YPbPr	(AUTO) ▶
VGA60/525P	(VGA60) ▶
SXGA MODE	(SXGA) ▶
↕	SELECT
↔	ADJ
↕	RETRN

OPTION2 menu (page 42)

OPTION2	
BACK COLOR	(BLUE) ▶
FRONT/REAR	(FRONT) ▶
DESK/CEILING	(DESK) ▶
FAN CONTROL	(STANDARD) ▶
LAMP POWER	(HIGH) ▶
LAMP RUNTIME	(100H) ▶
FUNC 1	(INDEX) ▶
CONTROL KEY	(ON) ▶
AUTO POW.OFF	(DISABLE) ▶
POWER MEMORY	(ON) ▶
↕	SELECT
↔	ADJ
↕	RETRN

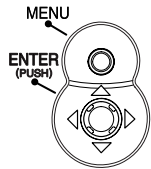
SECURITY menu (page 45)

SECURITY	
INPUT PASSWD	(OFF) ▶
AMEND PASSWD	
TEXT DISPLAY	(ON) ▶
TEXT CHANGE	
↕	SELECT
↔	ADJ
↕	RETRN

Menu operation guide



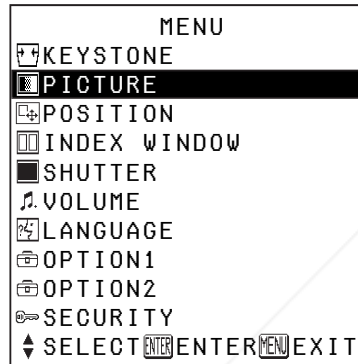
Menu operation (on connector panel)



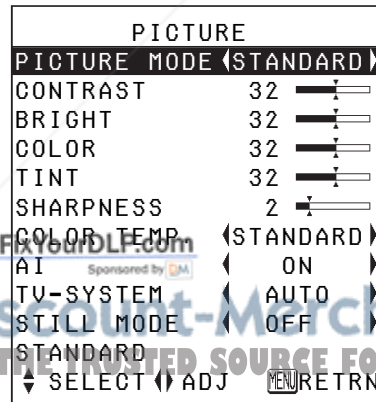
① Press the MENU button.
The "MAIN MENU" will be displayed.



② Press the ▲ or ▼ button to select an item.
Selected item will be displayed in blue.



③ Press the ENTER button to accept the selection.
The selected menu screen or adjustment screen will then be displayed.
(Example: "PICTURE" menu)



NOTE:
● Press the MENU button to return to the previous screen.

④ Press the ▲ or ▼ button to select an item, and then press the ◀ or ▶ button to change or adjust the setting.

An individual adjustment screen such as the one shown below will be displayed for bar-scale items.

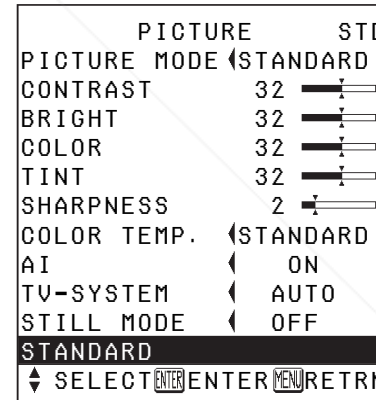


The bar scale will turn green when any adjustment changes the setting from the factory set value.

Returning a setting to the factory default

If you press the STD (standard) button on the remote control unit, you can return settings to the factory default settings. However, the operation of this function varies depending on which screen is being displayed.

● When a menu screen is being displayed



All items displayed will be returned to their factory default settings, "STD" will be displayed in the top-right screen and the bar scale will appear white.

NOTE:
● You can also select "STANDARD" from the menu screen and then press the ENTER button.

Unavailable on-screen menu items

This projector has unadjustable items and unusable functions depending on the signal being input.

When an item cannot be adjusted or a function cannot be used, the corresponding on-screen menu display does not appear, and the item or function will not work even if the ENTER button is pressed.

● When an individual adjustment screen is being displayed



Only the item displayed will be returned to the factory default setting, and the bar scale will appear white.

NOTE:

● Triangle symbols above and below the bar scale indicate the factory default setting. Items which do not have these triangle symbols cannot be returned to the factory default setting.

Indicates the standard factory default setting



Indicates the current adjustment value

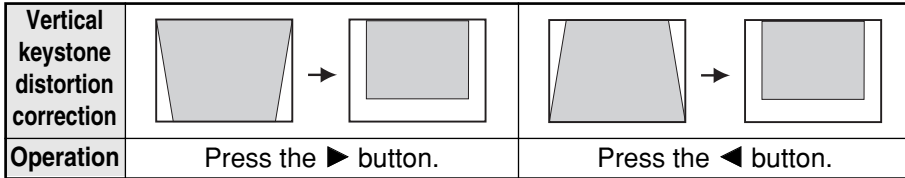
● The positions of triangle symbols vary depending on the type of signal being input.

Correcting keystone distortion

Keystone distortion is corrected automatically when the projector's automatic setup function is used, but this correction will not apply if the screen itself is tilted. In such cases, you can correct the keystone distortion manually with the following procedure.

Vertical keystone distortion correction only.

KEYSTONE 0



NOTE:

- If you press the AUTO SETUP button after correcting the keystone distortion manually, the automatic keystone correction function will operate and the corrected picture will return to its previous incorrect condition. To prevent this from happening, you can set "AUTO KEYSTN" in the "OPTION1" menu to "OFF". (Refer to page 42.)
- Vertical keystone distortion can be corrected to $\pm 30^\circ$ of the angle of tilt. However, the greater the correction amount, the more the picture quality will deteriorate, and the harder it will become to achieve a good level of focus. To obtain the best picture quality, set up the projector and screen in such a way that the amount of keystone correction required is as minimal as possible.
- The picture size will also change when correction of keystone distortion is carried out.

Adjusting the picture

Press the ▲ or ▼ button on the projector or remote control unit to select an item, and then press the ◀ or ► button to change the setting. For items with bar scales, press the ENTER button or the ◀ or ► button to display the adjustment screen, and then press the ◀ or ► button to make the adjustment.

When an RGB signal is being input

PICTURE	
PICTURE MODE (DYNAMIC) ▶	
CONTRAST	32
BRIGHT	32
SHARPNESS	0
COLOR TEMP.	(STANDARD) ◀
W-BAL R	32
W-BAL G	32
W-BAL B	32
AI	◀ ON ▶
SIGNAL MODE	XGA
STANDARD	
◀ SELECT ▶ ADJ RETRN	

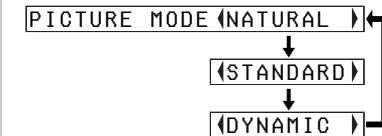
When an YPbPr signal is being input

PICTURE	
PICTURE MODE (STANDARD) ▶	
CONTRAST	32
BRIGHT	32
COLOR	32
TINT	32
SHARPNESS	2
COLOR TEMP.	(STANDARD) ◀
AI	◀ ON ▶
SIGNAL MODE	525P
STANDARD	
◀ SELECT ▶ ADJ RETRN	

When an S-VIDEO/VIDEO signal is being input

PICTURE	
PICTURE MODE (STANDARD) ▶	
CONTRAST	32
BRIGHT	32
COLOR	32
TINT	32
SHARPNESS	2
COLOR TEMP.	(STANDARD) ◀
AI	◀ ON ▶
TV-SYSTEM	◀ AUTO ▶
STILL MODE	◀ OFF ▶
STANDARD	
◀ SELECT ▶ ADJ RETRN	

PICTURE MODE



Select the picture mode that best matches the image source and room conditions. The mode best used in dark rooms is "NATURAL". For rooms having regular lighting conditions in use, select "STANDARD". For exceptionally bright rooms, use "DYNAMIC".

CONTRAST

This adjusts the contrast of the picture. (Adjust the "BRIGHT" setting first if required before adjusting the "CONTRAST" setting.)
The picture is bright: ◀ button
The picture is dark: ► button



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BRIGHT

This adjusts the darker areas (black areas) in the picture.

Black areas are too light: ◀ button

Dark areas are too solid: ▶ button

COLOR

(S-VIDEO/VIDEO/YPbPr only)

The color is too deep: ◀ button

The color is too pale: ▶ button

TINT

(NTSC/NTSC 4.43/YPbPr only)

This adjusts the flesh tones in the picture.

The flesh tones are greenish: ◀ button

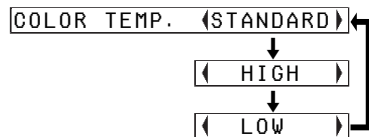
The flesh tones are reddish: ▶ button

SHARPNESS

To soften the picture details: ◀ button

To sharpen the picture details: ▶ button

COLOR TEMP.



This is used to adjust the white areas of the picture if they appear bluish or reddish.

White balance R/G/B (W-BAL R/G/B)

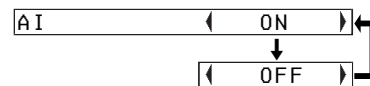
(RGB only)

This is used to adjust the white areas of the picture if they appear colorised.

To make the selected color lighter : ◀ button

To make the selected color stronger : ▶ button

AI



ON

The lamp is controlled according to the input signals to project images with the best quality.

OFF

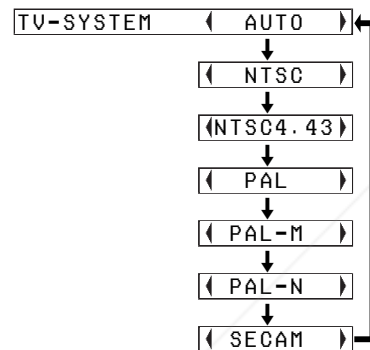
“AI” is disabled.

NOTE:

- “AI” is disabled when “LAMP POWER” is set to “LOW”. (Refer to page 43.)

TV-SYSTEM

(S-VIDEO/VIDEO only)

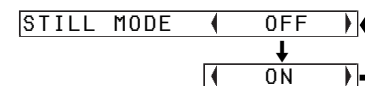


This should normally be set to “AUTO”. If the signal is of such poor quality that the correct format cannot be automatically distinguished, change the setting manually to the required TV system.

NOTE:

- When set to “AUTO”, the projector automatically distinguishes between NTSC/NTSC 4.43/PAL/PAL60/PAL-M/PAL-N/SECAM signals.

STILL MODE



To reduce flickering of still images (vertical flicker), set “STILL MODE” to “ON”.

NOTE:

- Do not set “STILL MODE” to “ON” when playing back moving images.

SIGNAL MODE

(RGB/YPbPr only)

This displays the type of signal which is currently being projected.

Refer to the table on page 58 for details on each type of signal.

Projecting sRGB-compatible pictures

sRGB is an international color reproduction standard (IEC61966-2-1) established by the International Electrotechnical Commission (IEC). If you would like the colors in sRGB-compatible pictures to be reproduced more faithfully, make the following settings.

- ① Press the ▲ or ▼ button to select “PICTURE MODE”, and then press the ◀ or ▶ button to select “NATURAL”.
- ② Press the STD (standard) button on the remote control unit.
- ③ Press the ▲ or ▼ button to select “COLOR TEMP.”, and then press the ◀ or ▶ button to select “STANDARD”.

NOTE:

- sRGB is only enabled when RGB signals are being input (when “LAMP POWER” is set to “HIGH”).

Adjusting the position

When an RGB signal is being input, press the AUTO SETUP button first to initiate automatic positioning. If the optimum setting is not obtained when "AUTO SETUP" is carried out, adjust by the following procedure.

Press the ▲ or ▼ button on the projector or remote control unit to select an item, and then press the ◀ or ▶ button to change the setting. For items with bar scales, press the ENTER button or the ◀ or ▶ button to display the adjustment screen, and then press the ◀ or ▶ button to make the adjustment.

When an RGB/YPbPr signal is being input

POSITION	
POSITION	
DOT CLOCK	32
CLOCK PHASE	16
ASPECT	◀ 4:3 ▶
RESIZING	◀ ON ▶
FRAME LOCK	◀ OFF ▶
STANDARD	
SELECT	ENTER ENTER MENU RE TRN

When an S-VIDEO/VIDEO signal is being input

POSITION	
POSITION	
ASPECT	◀ 4:3 ▶
RESIZING	◀ ON ▶
STANDARD	
SELECT	ENTER ENTER MENU RE TRN

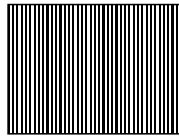
POSITION

Moves the picture position. Press the ENTER button to display the "POSITION" screen. Press the ◀ or ▶ button to move the picture horizontally. Press the ▲ or ▼ button to move the picture vertically.

POSITION	H	64
	V	32

DOT CLOCK

(RGB only) Periodic striped pattern interference (noise) may occur when a striped pattern such as the one below is projected. If this happens, press the ◀ or ▶ button to adjust so that any such noise is minimised.



CLOCK PHASE

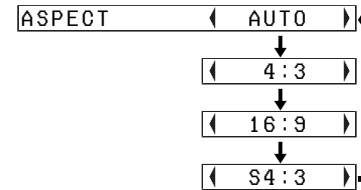
[RGB/YPbPr (except for 525i, 525p, 625i and 625p YPbPr signals) only] Adjust the "DOT CLOCK" setting first before carrying out this adjustment. Press the ◀ or ▶ button to adjust so that the noise level is least noticeable.

NOTE:

If signals with a dot clock frequency of 100 MHz or higher are being input, interference may not be completely eliminated when the "DOT CLOCK" and "CLOCK PHASE" adjustments are carried out.

ASPECT

(S-VIDEO/VIDEO/525i, 525p, 625i and 625p YPbPr signals only)



AUTO

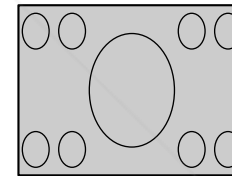
(S-VIDEO only) When an S1 video signal is being input, the aspect ratio is changed automatically to project a 16:9 picture.

4:3

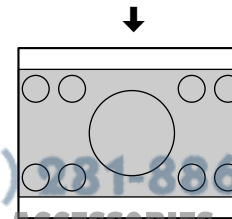
The input signal is projected without change.

16:9

The picture is compressed to a ratio of 16:9 and projected.

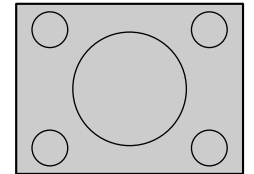


When a horizontally squeezed signal is being input.

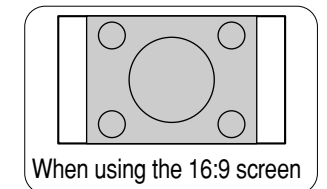
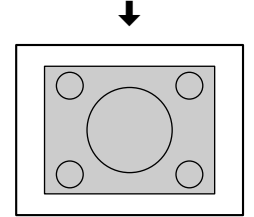


S4:3

The size of the input signal is compressed to 75% and projected. (This is useful for projecting a picture with a 4:3 aspect ratio onto a 16:9 screen.)



When a 4:3 signal is being input.



When using the 16:9 screen

S1 video signals

- S1 video signals are a type of video signal with an aspect ratio of 16:9 which include a detector signal. This detector signal is output by some sources such as wide-vision video decks.
- When "ASPECT" is set to "AUTO", the projector recognizes the detector signal and automatically switches the aspect ratio to 16:9.

NOTE:

- If a selected mode does not match the aspect ratio of the input signal, it may affect the quality of viewing of the original picture. Keep this in mind when selecting the aspect ratio.
- If using this projector in places such as cafes or hotels to display programs for a commercial purpose or for public presentation, note that if the aspect ratio (16:9) selection function is used to change the aspect ratio of the screen picture, you may be infringing the rights of the original copyright owner for that program under copyright protection laws.
- If a normal (4:3) picture which was not originally intended for wide-screen viewing is projected onto a wide screen, distortion may occur around the edges of the picture, or part of the picture may not be visible. Such programs should be viewed in 4:3 mode to give proper consideration to the aims and intentions of the original program's creator.

RESIZING

This should normally be set to "ON". (This setting is only for signals which have lower resolutions than the LCD panels. Refer to page 58 for details.)

ON

The pixel resolution of the input signal is converted to the same resolution as the LCD panels before being projected. For signals with lower resolutions, gaps in the pixels are automatically interpolated into the picture before it is projected. This may sometimes cause problems with the quality of the picture.

OFF

The input signal is projected at its original resolution, with no pixel conversion. The projected picture will be smaller than normal, so adjust the zoom setting or move the projector forwards or backwards to adjust the picture size if necessary. If set to "OFF", some features, such as "D.ZOOM" (digital zoom), "KEYSTONE" or "INDEX WINDOW" will not function.

FRAME LOCK

If the picture's condition is bad while a RGB moving picture is projected, set "FRAME LOCK" to "ON". Refer to page 58 for compatible RGB signals.

Changing the display language

Press the ▲ or ▼ button on the projector or remote control unit to select a language, then press the ENTER button to accept the setting.



Indicates the language which is currently set.



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Option settings

Press the ▲ or ▼ button on the projector or remote control unit to select an item, then press the ◀ or ▶ button to change the setting.

OPTION1	
OSD	ON
AUTO SIGNAL	ON
AUTO KEYSTN	ON
RGB/YPbPr	AUTO
VGA60/525P	VGA60
SXGA MODE	SXGA
SELECT	ADJ
MENU RE TRN	

OPTION2	
BACK COLOR	BLUE
FRONT/REAR	FRONT
DESK/CEILING	DESK
FAN CONTROL	STANDARD
LAMP POWER	HIGH
LAMP RUNTIME	100H
FUNC 1	INDEX
CONTROL KEY	ON
AUTO POW. OFF	DISABLE
POWER MEMORY	ON
SELECT	ADJ
MENU RE TRN	

OSD

ON

The signal name is displayed in the top-right corner of the screen when the input signal is changed.

OFF

Use this setting when you do not want the signal name to be displayed.

NOTE:

- The setting for "TV-SYSTEM" will also be displayed when an S-VIDEO/VIDEO signal is being input.

AUTO SIGNAL

This should normally be set to "ON".

ON

"AUTO SETUP" will be carried out automatically when the input signal is changed.

OFF

"AUTO SETUP" will not function when the input signal is changed.

AUTO KEYSTN

This should normally be set to "ON".

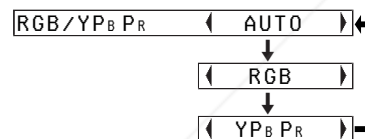
ON

During "AUTO SETUP", the angle of tilt of the projector is detected and keystone distortion is corrected automatically.

OFF

Use this setting when you do not want automatic keystone correction to be carried out during "AUTO SETUP", such as when the screen itself is at an angle.

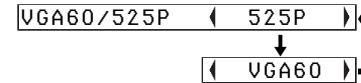
RGB/YPbPr



This should normally be set to "AUTO". RGB or YPbPr is selected automatically depending on the synchronising signal status.

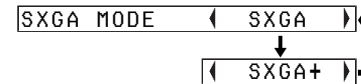
When HDTV, 525p, 525i, 625p, 525i, 750p, and some VGA480 signals are being input, select "RGB" or "YPbPr" in accordance with the input signal.

VGA60/525P



When a VGA60 or 525p RGB signal is being input, select the signal in accordance with the input signal.

SXGA MODE



This setting is only for an SXGA signal.

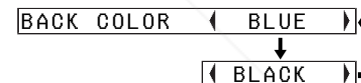
SXGA

Select this item normally.

SXGA+

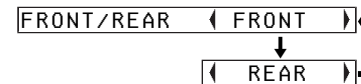
When the edges of the projected image are not visible, select this item.

BACK COLOR



This sets the color which is projected onto the screen when no signal is being input to the projector.

FRONT/REAR



This setting should be changed in accordance with the projector setting-up method. (Refer to page 17.)

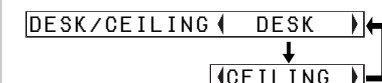
FRONT

When the projector is placed in front of a screen.

REAR

When using a translucent screen.

DESK/CEILING



This setting should be changed in accordance with the projector setting-up method. (Refer to page 17.)

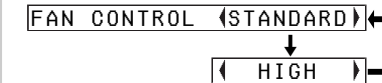
DESK

When the projector is placed on a desk or similar.

CEILING

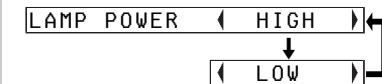
When the projector is suspended from a ceiling using the ceiling bracket (sold separately).

FAN CONTROL



Set "FAN CONTROL" to "HIGH", when using this projector at high elevations (above 1 400 m) only.

LAMP POWER



This setting changes the lamp brightness. When set to "LOW", the luminance of the lamp is reduced, but the projector uses less power, and the operating noise is also reduced. This can help to extend the lamp's operating life. If using the projector in small rooms where high luminance is not required, it is recommended that you set the "LAMP POWER" to "LOW".

LAMP RUNTIME

This setting displays the usage time for the lamp unit which is currently being used. When replacing the lamp unit, follow the instructions on page 51, and reset "LAMP RUNTIME" to "0".

NOTE:

- The lamp's operating life varies depending on the usage conditions (such as the "LAMP POWER" setting and the number of times the power is turned on and off).

FUNC 1



This assigns a function to the FUNC1 button of the ET-RM200 wireless remote control unit (sold separately).

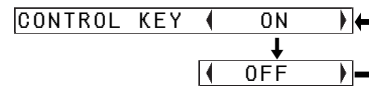
INDEX

Functions in the same way as the INDEX WINDOW button on the accessory card remote control unit. (page 29)

KEystone

Functions in the same way as when "KEystone" is selected from the "MAIN MENU". (page 34)

CONTROL KEY

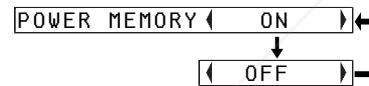


To disable the buttons on the projector, set "CONTROL KEY" to "OFF". A confirmation screen will then be displayed. Select "OK" by using ◀ or ▶ button. To use the buttons on the projector, set to "ON" by using the remote control unit.

AUTO POW.OFF

If no signal is input to the projector for the duration of the period you set, the projector will return to standby mode. The period can be set from 15 minutes to 60 minutes in 5 minute intervals. If you don't use this feature, set it to "DISABLE". This feature will not function when using the "FREEZE" function.

POWER MEMORY



This sets the projector's start up status for when the power cord is connected.

ON

The projector will start from the same status as when the power cord was connected. If the power cord was disconnected during projection when the projector was used the last time, projection will start after the power cord is connected.

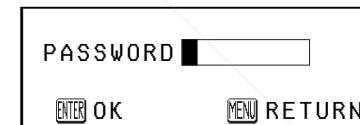
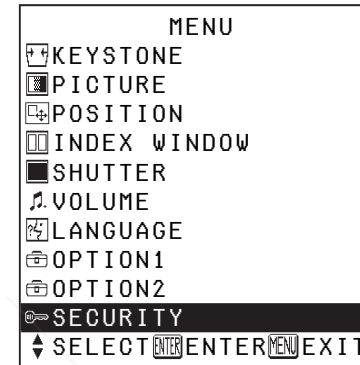
OFF

The projector will be in standby mode.

Setting up the security function

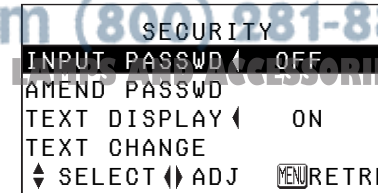
This projector is equipped with a security function. A password input screen can be displayed, or a company URL can be set up and displayed at the bottom of the projected image.

Press the ▲ or ▼ button on the projector or remote control unit to select "SECURITY", then press the ENTER button.



(When you use the "SECURITY" function for the first time)
Press the ▲, ▼, ◀, ▶, ▲, ▼, and ◀ buttons in order, then press the ENTER button.

(When a password change has been made before)
Type in the changed password, then press the ENTER button.



INPUT PASSWD

The password input screen can be displayed when the power is turned on. All of the controls other than the POWER button are disabled unless the password is entered correctly.

ON

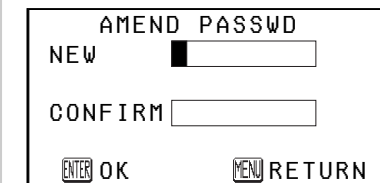
"INPUT PASSWD" is enabled.

OFF

"INPUT PASSWD" is disabled. The password input screen will not be displayed when the power is turned on.

AMEND PASSWD

Passwords can be changed. Press the ENTER button to display the "AMEND PASSWD" screen.



- Set a password by pressing the ▲, ▼, ◀, and ▶ buttons. (A maximum of 8 buttons can be set.)
- Press the ENTER button.
- Enter the password again for confirmation.
- Press the ENTER button. Password change will be completed.

NOTE:

- The entered password will appear as *. It will not be displayed on the screen.
- If you enter the wrong password, the letters "PASSWORD" and "NEW" will become red. Enter the correct password again.

TEXT DISPLAY

The setup letters can be displayed at the bottom of the projected image while an image is projected.

ON

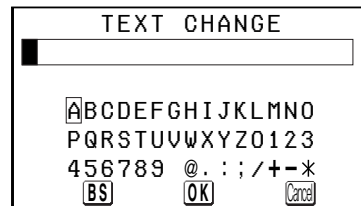
"TEXT DISPLAY" is enabled.

OFF

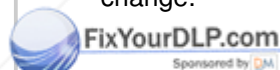
"TEXT DISPLAY" is disabled.

TEXT CHANGE

The setup letters which will be displayed when "TEXT DISPLAY" is set to "ON" can be changed. Press the ENTER button to display the "TEXT CHANGE" screen.



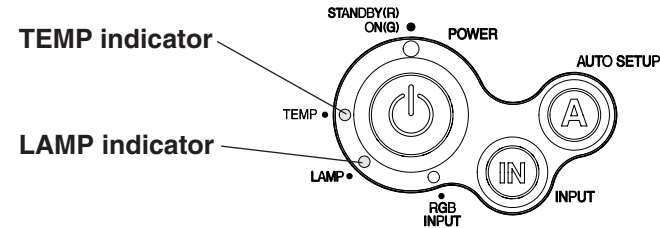
- ① Press the ▲, ▼, ◀ and ▶ buttons to select the characters, then press the ENTER button. (You can enter 22 characters continuously.)
 - Select "BS" to delete a character.
- ② Press the ▲, ▼, ◀ and ▶ buttons to select "OK", then press the ENTER button.
 - Select "Cancel" to cancel the change.



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When the TEMP indicator and the LAMP indicator are illuminated

There are two indicators on the control panel of the projector which give information about the operating condition of the projector. These indicators illuminate or flash to warn you about problems that have occurred inside the projector, so if you notice that one of the indicators is on, turn off the power and check the table below for the cause of the problem.



TEMP indicator			
Indicator display	Illuminated (red) (Lamp unit on)	Flashing (red) (Lamp unit on)	Flashing (red) (Lamp unit off)
Problem	The surrounding temperature or the temperature inside the projector has become unusually high.	The temperature inside the projector has become dangerously high, or the temperature has suddenly changed.	The surrounding temperature or the temperature inside the projector has become dangerously high, causing the lamp unit to automatically shut off.
Possible cause	<ul style="list-style-type: none"> • The ventilation holes may be covered. • The ambient temperature in the place of use may be too high. • The air filter may be blocked. 		
Remedy	<ul style="list-style-type: none"> • Uncover the ventilation holes. • Set up the projector in a place where the temperature is between 0 °C (32 °F) and 40 °C (104 °F) and the humidity is between 20% and 80% (with no condensation). [If you set the "FAN CONTROL" to "HIGH" (page 43), set up the projector in a place where the temperature is between 0 °C (32 °F) and 35 °C (95 °F) and the humidity is between 20% and 80% (with no condensation).] • Disconnect the power cord by following the procedure on page 24, and then clean the air filter. (Refer to page 49) 		

Cleaning and replacing the air filter

If the air filter becomes clogged with dust, the internal temperature of the projector will rise, the TEMP indicator will flash and the projector power will turn off. **The air filter should be cleaned every 100 hours of use.**

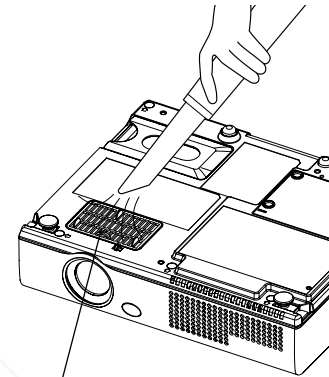
LAMP indicator		
Indicator display	Illuminated (red)	Flashing (red)
Problem	It is nearly time to replace the lamp unit.	An abnormality has been detected in the lamp circuit.
Possible cause	<ul style="list-style-type: none"> Does "REPLACE LAMP" appear on the screen after the projector is turned on? 	<ul style="list-style-type: none"> The power may have been turned on straight away after it was turned off. There may be an abnormality in the lamp circuit.
Remedy	<ul style="list-style-type: none"> This occurs when the operation time for the lamp unit is nearing 1 800 hours (when "LAMP POWER" has been set to "HIGH"). Ask your dealer or an Authorized Service Center to replace the lamp unit. 	<ul style="list-style-type: none"> Wait for a while until the lamp unit cools down before turning the power back on again. Disconnect the power cord by following the procedure on page 24, and then contact an Authorized Service Center.

NOTE:

- Be sure to disconnect the power cord by following the procedure given in "Turning off the power" on page 24 before carrying out any of the procedures in the "Remedy" column.
- If the power turns off after the TEMP indicator starts flashing, it means an abnormality has occurred. Please contact an Authorized Service Center so that the necessary repairs can be made.

Cleaning

Use a vacuum cleaner to clean off any accumulated dust.



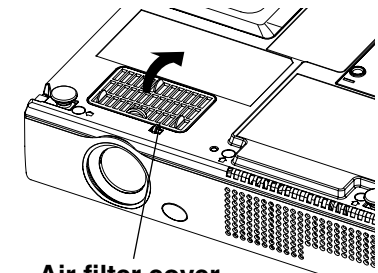
Air filter cover

NOTE:

- If the dust cannot be cleaned by a vacuum cleaner, remove the air filter and soak it in water, and then wash out the dust by hand. Be sure to install the air filter after it has dried.
- Do not use detergent when washing the air filter.
- If the dust cannot be removed by cleaning, it is time to replace the air filter. Please consult your dealer. Furthermore, if the lamp unit is being replaced, replace the air filter at this time also.

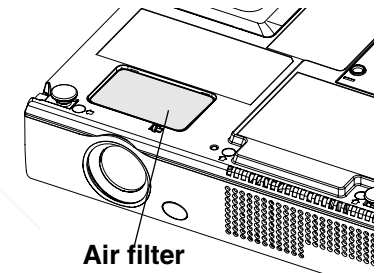
Replacement procedure

- Turn off the power and disconnect the power cord. Be sure to disconnect the power cord by following the procedure given on page 24.
- Gently turn the projector upside down, and then remove the air filter cover.



Air filter cover

- Replace the air filter, and then install the air filter cover.



Air filter

NOTE:

- Be sure to install the air filter before using the projector. If the projector is used without the air filter installed, dust and other foreign particles will be drawn into the projector, and malfunctions will result.

Replacing the lamp unit

Warning

The lamp unit should only be replaced by a qualified technician.

When replacing the lamp, allow it to cool for at least one hour before handling it.

- The lamp cover gets very hot, and contact with it can cause burns.

Notes on replacing the lamp unit

- The light generating lamp is made of glass, so dropping it or allowing it to hit hard objects may cause it to burst. Be careful when handling the lamp.
- Dispose of the removed old lamp with the same care that would be taken with a fluorescent light.
- A Phillips screwdriver is necessary for removing the lamp unit.

NOTE:

- The projector is not supplied with a replacement lamp unit. Please ask your dealer for details. Lamp unit product no.: **ET-LAM1**

CAUTION:

- Do not use any lamp unit other than the one with the product number indicated above.

Lamp unit replacement period

The lamp is a consumable product. Even when the full life of the bulb has not been exhausted, the brightness of the light will gradually decline. Therefore periodic replacement of the lamp is necessary.



The intended lamp replacement interval is 2 000 hours, but it is possible that the lamp may need to be replaced earlier due to variables such as a particular lamp's characteristics, usage conditions and the installation environment. Early preparation for lamp replacement is encouraged.

The lamp will automatically shut off after approximately 10 minutes when 2 000 hours of use have been reached because of a much greater chance of it exploding after this time.

NOTE:

- The usage hours explained above are for use when the "HIGH" setting has been selected for "LAMP POWER" in the "OPTION2" menu. If the "LOW" setting is selected, the brightness of the lamp will be less and life of the lamp can be extended.

While 2 000 hours is the intended replacement interval, it is not a period of time covered by warranty.

	On-screen display 	LAMP indicator 
More than 1 800 hours	Displayed for 30 seconds. Pressing any button will clear the display.	Illuminates red during image projection and standby mode.
More than 2 000 hours	Remains displayed until any button is pressed.	

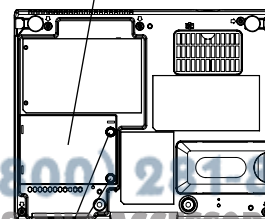
Lamp unit replacement procedure

NOTE:

- If the lamp usage time has passed 2 000 hours (when "LAMP POWER" has been set to "HIGH"), the projector will switch to standby mode after approximately 10 minutes of operation. The steps ⑦ to ⑪ on the next page should thus be completed within 10 minutes.

- ① Disconnect the power cord from the projector by following the procedure on page 24, and check that the area around the lamp unit has cooled down.
- ② Use a Phillips screwdriver to turn the lamp unit cover fixing screws at the bottom of the projector, and then remove the lamp unit cover.

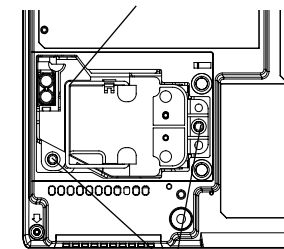
Lamp unit cover



Lamp unit cover fixing screws

- ③ Use a Phillips screwdriver to loosen the two lamp unit fixing screws until the screws turn freely. Then hold the handle of the lamp unit and gently pull it out from the projector.

Handle



Lamp unit fixing screws

- ④ Insert the new lamp unit while making sure that the direction of insertion is correct, and then use a Phillips screwdriver to securely tighten the lamp unit fixing screws.

- ⑤ Install the lamp unit cover, and then use a Phillips screwdriver to securely tighten the lamp unit cover fixing screws.

NOTE:

- Be sure to install the lamp unit and the lamp unit cover securely. If they are not securely installed, it may cause the protection circuit to operate so that the power cannot be turned on.

- ⑥ Connect the power cord.
- ⑦ Press the POWER button so that a picture is projected onto the screen.

NOTE:

- If the power cord was disconnected during projection when the projector was used the last time, projection will start after the power cord is connected (when "POWER MEMORY" in the "OPTION2" menu is set to "ON"). Refer to page 44 for details.

- ⑧ Press the MENU button to display the "MAIN MENU", and then press the ▲ or ▼ button to select "OPTION2".

MENU	
⏏	KEYSTONE
🖼️	PICTURE
📏	POSITION
🪞	INDEX WINDOW
🔒	SHUTTER
🔊	VOLUME
🌐	LANGUAGE
📺	OPTION1
📺	OPTION2
🔒	SECURITY
⏏	SELECT ENTER ENTER MENU EXIT

- ⑨ Press the ENTER button to display the "OPTION2" menu, and then press the ▲ or ▼ button to select "LAMP RUNTIME".

OPTION2	
BACK COLOR	◀ BLUE ▶
FRONT/REAR	◀ FRONT ▶
DESK/CEILING	◀ DESK ▶
FAN CONTROL	◀ STANDARD ▶
LAMP POWER	◀ HIGH ▶
LAMP RUNTIME	1820H
FUNC 1	◀ INDEX ▶
CONTROL KEY	◀ ON ▶
AUTO POW.OFF	◀ DISABLE ▶
POWER MEMORY	◀ ON ▶
⏏	SELECT MENU RETRN

- ⑩ Press and hold the ENTER button for approximately 3 seconds.

OPTION2	
BACK COLOR	◀ BLUE ▶
FRONT/REAR	◀ FRONT ▶
DESK/CEILING	◀ DESK ▶
FAN CONTROL	◀ STANDARD ▶
LAMP POWER	◀ HIGH ▶
TIME RESET [POWER OFF]	
FUNC 1	◀ INDEX ▶
CONTROL KEY	◀ ON ▶
AUTO POW.OFF	◀ DISABLE ▶
POWER MEMORY	◀ ON ▶
⏏	SELECT MENU RETRN

The "LAMP RUNTIME" will change to "TIME RESET [POWER OFF]".

NOTE:

- If the MENU button is pressed, the lamp time resetting screen will be cancelled.

- ⑪ Turn off the power.
This will reset the cumulative usage time for the lamp unit to "0". Refer to page 24 for details on how to turn off the power.

Before calling for service

Before calling for service, check the following points.

Problem	Possible cause	Page
Power does not turn on.	• The power cord may not be connected.	–
	• The main power supply is not being supplied to the wall outlet.	–
	• TEMP indicator is illuminated or flashing.	47
	• LAMP indicator is illuminated or flashing.	48
	• The lamp unit cover has not been securely installed.	–
No picture appears.	• The video signal input source may not be connected properly.	–
	• The input selection setting may not be correct.	23
	• The "BRIGHT" adjustment setting may be at the minimum possible setting.	36
The picture is fuzzy.	• The "SHUTTER" function may be in use.	27
	• The lens cover may still be attached to the lens.	–
The color is pale or grayish.	• The lens focus may not have been set correctly.	23
	• The projector may not be at the correct distance from the screen.	18
	• The lens may be dirty.	–
No sound can be heard.	• The projector may be tilted too much.	18
	• "COLOR" or "TINT" adjustment may be incorrect.	36
The remote control unit does not operate.	• The input source which is connected to the projector may not be adjusted correctly.	–
	• The audio signal source may not be connected properly.	–
The buttons on the projector do not function.	• The volume adjustment may be at the lowest possible setting.	28, 31
	• The battery may be weak.	–
	• The battery may not be inserted correctly.	21
The remote control unit does not operate.	• The remote control signal receptor on the projector may be obstructed.	21
	• The remote control unit may be out of the operation range.	21
The buttons on the projector do not function.	• The "CONTROL KEY" may be set to "OFF".	44
	In order to set the "CONTROL KEY" to "ON" without using the remote control unit, keep holding down the ENTER button on the projector and press the MENU button for more than 2 seconds.	

Cleaning and maintenance

Before carrying out cleaning and maintenance, be sure to disconnect the power cord plug from the wall outlet.

Wipe the cabinet with a soft, dry cloth.

If the cabinet is particularly dirty, soak the cloth in water with a small amount of neutral detergent in it, squeeze the cloth very well, and then wipe the cabinet. After cleaning, wipe the cabinet dry with a dry cloth. If using a chemically-treated cloth, read the instructions supplied with the cloth before use.

Do not wipe the lens with a cloth that is dusty or which produces lint.

If any dust or lint gets onto the lens, such dust or lint will be magnified and projected onto the screen. Use a blower to clean any dust and lint from the lens surface, or use a soft cloth to wipe off any dust or lint.

Problem	Possible cause	Page
The picture does not display correctly.	● The signal format ("TV-SYSTEM") may not be set correctly.	36
	● There may be a problem with the video tape or other signal source.	—
	● A signal which is not compatible with the projector may be being input.	58
Picture from computer does not appear.	● The cable may be too long.	—
	● The external video output for the laptop computer may not be set correctly. (You may be able to change the external output settings by pressing the [Fn]+[F3] or [Fn]+[F10] keys simultaneously. The actual method varies depending on the type of computer, so refer to the documentation provided with your computer for further details.)	—
	● If an RGB INPUT indicator is turned off, the video signals may not be output from the computer.	14



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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Specifications

Power supply:	100 V – 240 V ~, 50 Hz/60 Hz
Power consumption:	180 W [During standby (when fan is stopped): Approx. 5 W]
Amps:	2.2 A – 1.0 A
LCD panel:	
Panel size (diagonal):	0.55 type (13.97 mm)
Aspect ratio:	4:3
Display method:	3 transparent LCD panels (RGB)
Drive method:	Active matrix method
Pixels:	480 000 (800 x 600) x 3 panels
Lens:	Manual zoom (1 - 1.2) / Manual focus F 1.8 - 1.9, f 17.0 mm - 20.4 mm
Lamp:	UHM lamp (130 W)
Luminosity:	1 200 lm
Scanning frequency (for RGB signals):	
Horizontal scanning frequency:	15 kHz – 91 kHz
Vertical scanning frequency:	50 Hz – 85 Hz
Dot clock frequency:	Less than 100 MHz
YPbPr signals:	525i (480i), 525p (480p), 625i (576i), 625p (576p), 750p (720p), 1 125i (1 080i)
Color system:	7 (NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/ PAL60/SECAM)
Projection size:	838.2 mm - 7 620 mm (33" - 300")
Throw distance:	1.2 m - 10.9 m (3'11" - 35'9")
Optical axis shift:	6:1 (fixed)
Screen aspect ratio:	4:3
Installation:	Front/Rear/Ceiling/Desk (Menu selection method)
Speaker:	2.8 cm round x 1
Max. useable volume output:	1 W (mono)
Connectors	
RGB IN:	Single-line, D-SUB HD 15-pin (female)
During YPbPr input:	
Y:	1.0 V [p-p] (Including sync), 75 Ω
PB, PR :	0.7 V [p-p], 75 Ω
During RGB input:	
R.G.B.:	0.7 V [p-p], 75 Ω
G.SYNC:	1.0 V [p-p], 75 Ω
HD/SYNC:	TTL, automatic plus/minus polarity compatible
VD:	TTL, automatic plus/minus polarity compatible

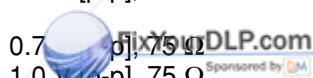
VIDEO IN:	Single-line, RCA pin jack 1.0 V [p-p], 75 Ω
S-VIDEO IN:	Single-line, Mini DIN 4-pin Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω
AUDIO IN:	Single-line, RCA pin jack x 2 (L-R) 0.5 V [rms]
Cabinet:	Moulded plastic (PC/ASA)
Dimensions:	
Width:	257 mm (10-3/32")
Height:	69 mm (2-11/16")
Length:	209 mm (8-7/32") (without lens cover)
Weight:	1.6 kg (3.5 lbs.)
Operating environment:	
Temperature:	0 °C – 40 °C (32 °F – 104 °F) [When the "FAN CONTROL" is set to "HIGH" (page 43); 0 °C – 35 °C (32 °F – 95 °F)]
Humidity:	20% – 80% (no condensation)
Certifications:	UL60950, C-UL FCC Class B

<Remote control unit>

Power supply:	3 V DC (Lithium CR2025 battery x1)
Operating range:	Approx. 7 m (23') (when operated directly in front of signal receptor)
Weight:	18 g (0.6 ozs.) (including battery)
Dimensions:	
Width:	40 mm (1-9/16")
Length:	6.5 mm (-1/4")
Height:	86 mm (3-3/8")

<Options>

Ceiling bracket	ET-PKM1
Wireless remote control unit	ET-RM200



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Appendix

List of compatible signals

Mode	Display resolution (dots)*1	Scanning frequency		Dot clock frequency (MHz)	Picture quality*2	RESIZING*3	Format
		H (kHz)	V (Hz)				
NTSC/NTSC4.43/ PAL-M/PAL60	720 x 480i	15.734	59.940		A	OK	Video/S-Video
PAL/PAL-N/SECAM	720 x 576i	15.625	50.000		A	OK	Video/S-Video
525i	720 x 480i	15.734	59.940	13.500	A	OK	YPbPr/RGB
625i	720 x 576i	15.625	50.000	13.500	A	OK	YPbPr/RGB
525p	720 x 483	31.469	59.940	27.000	A	OK	YPbPr/RGB
625p	720 x 576	31.250	50.000	27.000	A	OK	YPbPr/RGB
HDTV60	1 920 x 1 080i	33.750	60.000	74.250	A		YPbPr/RGB
HDTV50	1 920 x 1 080i	28.125	50.000	74.250	A		YPbPr/RGB
750p	1 280 x 720	45.000	60.000	74.250	A		YPbPr/RGB
VGA400	640 x 400	31.469	70.086	25.175	A	OK	RGB
VGA480 *4	640 x 400	37.861	85.081	31.500	A	OK	RGB
	640 x 480	31.469	59.940	25.175	A	OK	RGB
	640 x 480	35.000	66.667	30.240	A	OK	RGB
	640 x 480	37.861	72.809	31.500	A	OK	RGB
	640 x 480	37.500	75.000	31.500	A	OK	RGB
SVGA *4	640 x 480	43.269	85.008	36.000	A	OK	RGB
	800 x 600	35.156	56.250	36.000	AA		RGB
	800 x 600	37.879	60.317	40.000	AA		RGB
	800 x 600	48.077	72.188	50.000	AA		RGB
	800 x 600	46.875	75.000	49.500	AA		RGB
MAC16 XGA *4	800 x 600	53.674	85.061	56.250	AA		RGB
	832 x 624	49.725	74.550	57.283	A		RGB
	1 024 x 768	48.363	60.004	65.000	A		RGB
	1 024 x 768	56.476	70.069	75.000	A		RGB
	1 024 x 768	60.023	75.029	78.750	A		RGB
MXGA	1 024 x 768	68.678	84.997	94.500	A		RGB
	1 024 x 768i	35.520	86.952	44.897	A		RGB
	1 152 x 864	63.995	71.184	94.200	A		RGB
	1 152 x 864	67.500	74.917	108.000	B		RGB
	1 152 x 864	76.705	85.038	121.500	B		RGB
MAC21	1 152 x 870	68.681	75.062	100.000	B		RGB
MSXGA *4	1 280 x 960	60.000	60.000	108.000	B		RGB
SXGA *4	1 280 x 1 024	63.981	60.020	108.000	B		RGB
	1 280 x 1 024	79.977	75.025	135.001	B		RGB
	1 280 x 1 024	91.146	85.024	157.500	B		RGB
	1 400 x 1 050	63.981	60.020	108.000	B		RGB
	UXGA *4	1 600 x 1 200	75.000	60.000	162.000	B	

*1 The "i" appearing after the resolution indicates an interlaced signal.

*2 The following symbols are used to indicate picture quality.

AA Maximum picture quality can be obtained.

A Signals are converted by the image processing circuit before picture is projected.

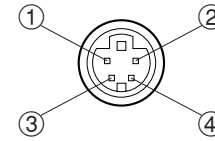
B Some loss of data occurs to make projection easier.

*3 Signals with "OK" in the "RESIZING" column can be set using the "RESIZING" command in the "POSITION" menu. (page 40)

*4 Signals that are compatible with the "FRAME LOCK" function. (page 40)

Connector pin wiring

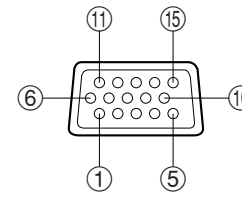
- The pin layout and signal names for the S-VIDEO IN connector are shown below.



External view

Pin No.	Signal
①	Earth (Luminance signal)
②	Earth (Color signal)
③	Luminance signal
④	Color signal

- The pin layout and signal names for the RGB IN connector are shown below.



External view

Pin No.	Signal
①	R/Pr
②	G/G·SYNC/Y
③	B/Pb
⑫	SDA
⑬	HD/SYNC
⑭	VD
⑮	SCL

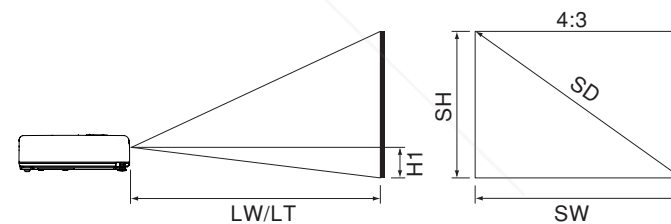
Pin ④ and ⑨ are spare.

Pins ⑤ – ⑧, ⑩ and ⑪ are for earth.

Pins ⑫ and ⑮ functions are only valid when supported by the computer.

Projection dimensions calculation methods

If the screen size (diagonal) is SD (m), then the following formula is used to calculate the projection distance for the wide lens position (LW) and the projection distance for the telephoto lens position (LT).



Minimum Projection Distance (mm)	$LW=30.919 \times SD / 0.0254 - 42.514$
Maximum Projection Distance (mm)	$LT=36.766 \times SD / 0.0254 - 42.233$

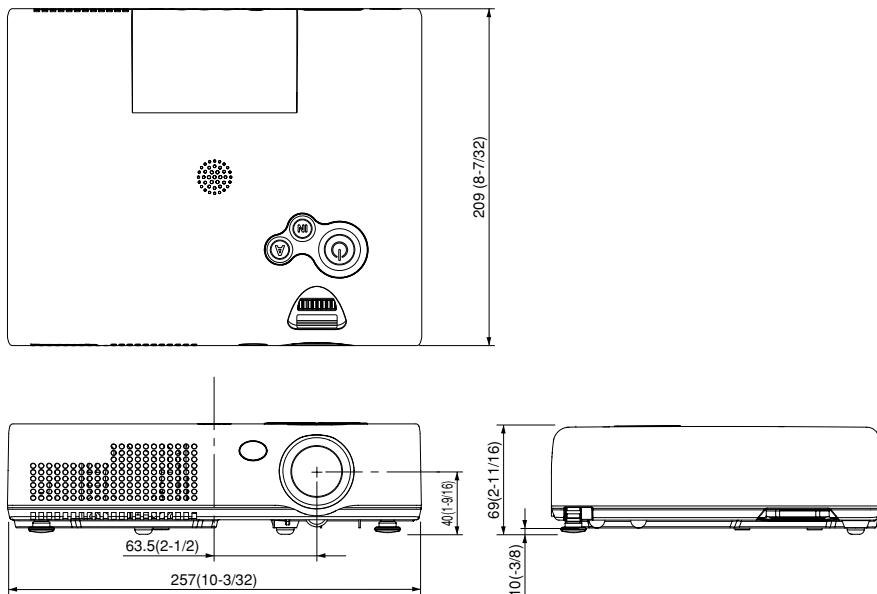
For 16:9 aspect ratios, the following formula can be used to calculate the projection distance.

Minimum Projection Distance (mm)	$LW=33.902 \times SD / 0.0254 - 42.524$
Maximum Projection Distance (mm)	$LT=40.359 \times SD / 0.0254 - 42.519$

*The values obtained from the formulas above are approximate.

Dimensions

<Units: mm (inch)>



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- VGA and XGA are trademarks of International Business Machines Corporation.
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- S-VGA is a registered trademark of the Video Electronics Standards Association.

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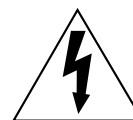
These Operating Instructions are printed on recycled paper.

NOTES IMPORTANTES CONCERNANT LA SÉCURITÉ

AVERTISSEMENT: POUR REDUIRE LES RISQUES DE FEU OU DE CHOC ÉLECTRIQUE, NE PAS EXPOSER CE PRODUIT À L'EAU OU À L'HUMIDITÉ

Alimentation: Ce projecteur LCD est conçu pour fonctionner sur secteur de 100 V - 240 V, 50 Hz/60 Hz seulement.

ATTENTION: Le cordon d'alimentation secteur fourni avec le projecteur peut être utilisé uniquement pour une alimentation électrique de 125 V, 7 A maximum. Si on veut l'utiliser avec une tension ou un courant plus forts, on doit se procurer un autre cordon d'alimentation de 250 V. Si on utilise le cordon fourni sous ces conditions, risque de provoquer un incendie.

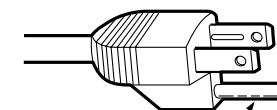


Le symbole de la flèche en forme d'éclair, dans un triangle, avertit l'utilisateur de la présence de "tensions dangereuses" à l'intérieur du produit qui peuvent être de force suffisante pour constituer un risque de choc électrique aux personnes.



Le point d'exclamation dans un triangle avertit l'utilisateur de la présence d'instructions importantes concernant l'utilisation et l'entretien (réparation) dans la littérature accompagnant le produit.

ATTENTION: Cet appareil est équipé d'une fiche de courant à trois broches avec mise à la terre. Ne pas retirer la broche de mise à la masse de la fiche.



Ne pas retirer

Cette fiche ne pourra être utilisée que dans une prise avec mise à la terre. Ceci est une précaution sécuritaire. S'il est impossible d'insérer la fiche dans la prise, s'adresser à un électricien. Ne pas annuler la protection de la fiche à mise à la terre.

AVERTISSEMENT:

- Ne peut être utilisé dans une salle d'ordinateurs telle que définie dans la norme ANSI/NFPA 75 Standard for Protection of Electronic Computer/Data Processing Equipment.
- Pour l'équipement branché en permanence, un dispositif de disconnexion d'accès facile doit être incorporé dans le câble d'installation du bâtiment;
- Pour l'équipement branchable, une prise secteur d'accès facile doit être installée près de l'équipement.

Précautions de sécurité

AVERTISSEMENT

Si l'on remarque une émission de fumée, d'odeurs suspectes ou de bruits provenant du projecteur, débrancher la fiche du cordon d'alimentation de la prise de courant.

- Ne pas continuer d'utiliser le projecteur dans ces cas, autrement cela peut entraîner un incendie ou des chocs électriques.
- Après s'être assuré que de la fumée ne se dégage plus, s'adresser à un centre technique agréé et demander que les réparations nécessaires soient faites.
- Le fait de réparer le projecteur soi-même est très dangereux, et ne doit jamais être fait.

Ne pas installer ce projecteur dans un endroit qui n'est pas assez résistant pour supporter le poids du projecteur.

- Si l'emplacement d'installation n'est pas assez résistant, le projecteur risque de tomber et causer de graves blessures et (ou) des dommages.

Demander à un technicien qualifié d'installer le projecteur par exemple s'il est installé au plafond.

- Si l'installation n'est pas faite correctement, cela peut entraîner des blessures ou des chocs électriques.

Si de l'eau ou des objets étrangers entrent dans le projecteur, si le projecteur tombe, ou si le boîtier est endommagé, éteindre l'appareil et débrancher immédiatement la fiche d'alimentation de la prise de courant.

- Si l'on continue d'utiliser le projecteur dans cette condition, cela peut entraîner un incendie ou des chocs électriques.
- S'adresser à un centre technique agréé pour que les réparations nécessaires puissent être faites.

Ne pas surcharger la prise de courant.

- Si l'alimentation est surchargée (par exemple, par l'utilisation de trop d'adaptateurs), cela risque de faire surchauffer le projecteur et peut entraîner un incendie.

Ne pas retirer le capot ou le modifier.

- Des hautes tensions qui peuvent causer de graves blessures sont présentes à l'intérieur du projecteur.

- Pour toute inspection, réglage ou réparation, s'adresser à un centre technique agréé.

Nettoyer la fiche du cordon d'alimentation régulièrement afin d'éviter toute accumulation de poussière.

- Si de la poussière s'accumule sur la fiche du cordon d'alimentation, l'humidité peut endommager l'isolant et entraîner un incendie. Débrancher le cordon d'alimentation de la prise de courant et l'essuyer avec un tissu sec.
- Si le projecteur n'est pas utilisé pendant une période prolongée, débrancher le cordon d'alimentation de la prise de courant.

Faire attention à ne pas endommager le cordon d'alimentation.

- Ne pas endommager le cordon d'alimentation, ne pas le modifier, ne pas le placer sous des objets lourds, ne pas le chauffer, ne pas le placer près d'objets chauffants, ne pas le tordre, ne pas le plier ou le tirer excessivement et ne pas le rouler en boule.
- Si le cordon d'alimentation est endommagé, cela peut entraîner un incendie et des chocs électriques.
- Si le cordon d'alimentation est endommagé, le faire réparer par un centre technique agréé.

Ne pas manipuler le cordon d'alimentation avec les mains mouillées.

- Cela peut entraîner des chocs électriques.

Brancher la fiche du cordon d'alimentation fermement dans la prise de courant.

- Si la fiche n'est pas complètement insérée, cela peut entraîner des chocs électriques ou la faire surchauffer.
- Si la fiche est endommagée ou la plaque de la prise est desserrée, elles ne devraient pas être utilisées.

Ne pas placer le projecteur sur des surfaces instables.

- Si le projecteur est placé sur une surface qui est inclinée ou instable, il risque de tomber ou de se renverser et cela peut causer des blessures ou des dommages.

Ne pas placer le projecteur dans l'eau ou ne pas le laisser se mouiller.

- Sinon cela peut causer un incendie ou des chocs électriques.

Ne pas placer des récipients de liquide sur le projecteur.

- Si de l'eau se renverse sur le projecteur ou pénètre dans celui-ci, il y aura risque d'incendie ou d'électrocution.
- Si de l'eau entre à l'intérieur du projecteur, entrer en contact avec un centre technique agréé.

Ne pas mettre d'objets étrangers dans le projecteur.

- Ne pas insérer d'objets métalliques ou inflammables dans les orifices de ventilation ou les faire tomber sur le projecteur, car cela peut causer un incendie ou des chocs électriques.

Garder les piles hors de portée des enfants.

- Si les piles sont ingérées, il y aura risque de décès par étouffement. En cas d'ingestion des piles, consulter immédiatement un médecin.

Veiller à ce que les bornes + et - des piles n'entrent pas en contact avec des objets métalliques tels que colliers ou épingles à cheveux.

- Sinon, les piles risqueront de fuir, de surchauffer, d'exploser ou de prendre feu.
- Ranger les piles dans un sac en plastique, et ne pas les ranger à proximité d'objets métalliques.

Pendant un orage, ne pas toucher le projecteur ou le câble.

- Il y a risque d'électrocution.

Ne pas utiliser l'appareil dans un bain ou une douche.

- Il y a risque d'incendie ou d'électrocution.

Ne pas regarder directement dans l'objectif pendant que le projecteur fonctionne.

- Une lumière intense est émise par l'objectif du projecteur. Si l'on regarde directement dans cette lumière, elle risque de causer des blessures et de graves lésions aux yeux.
- Veiller particulièrement à ne pas laisser les jeunes enfants regarder dans l'objectif. En outre, débrancher le cordon d'alimentation secteur lorsqu'on laisse le projecteur sans surveillance.

Ne pas placer les mains ou autres objets près de l'orifice de sortie d'air.

- De l'air chaud sort par l'orifice de sortie d'air. Ne pas placer les mains, le visage, ou d'autres objets qui ne peuvent résister à la chaleur près de cette sortie d'air, sinon des brûlures ou des dommages risqueraient de s'ensuivre.

Le remplacement de l'unité de lampe ne devrait être effectué que par un technicien qualifié.

- Le bloc de lampe a une haute pression interne. S'il est mal manipulé, une explosion peut s'ensuivre
- Le bloc de lampe peut être facilement endommagé s'il est cogné contre des objets durs ou si on le laisse tomber, pouvant entraîner des blessures ou des mauvais fonctionnements.

Lors du remplacement de la lampe, la laisser refroidir pendant au moins une heure avant de la manipuler.

- Le couvercle de la lampe devient très chaud, et on risque de se brûler si on le touche.

Avant de remplacer la lampe, veiller à débrancher le cordon d'alimentation de la prise de courant

- Il y a risque d'électrocution ou d'explosion

Attention

Ne pas obstruer les orifices d'entrée et de sortie d'air.

- Cela risque de faire surchauffer le projecteur, et causer un incendie ou endommager le projecteur.
- Ne pas installer le projecteur dans des endroits étroits, mal ventilés tels que des placards ou des rayons à livres.

- Ne pas placer le projecteur sur des tissus ou du papier, ces matériaux peuvent être aspirés dans l'orifice d'entrée d'air.

Ne pas installer le projecteur dans des endroits humides ou poussiéreux ou dans des endroits où le projecteur peut entrer en contact avec de la fumée ou la vapeur.

- L'utilisation du projecteur dans de telles conditions peut causer un incendie ou des chocs électriques.

Pour débrancher le cordon d'alimentation, tenir la fiche et non pas le cordon.

- Si le cordon d'alimentation est tiré, le cordon sera endommagé et cela peut causer un incendie, des courts-circuits ou des chocs électriques sérieux.

Débrancher toujours tous les câbles avant de déplacer le projecteur.

- Le fait de déplacer le projecteur avec des câbles branchés peut endommager les câbles, ce qui pourrait causer un incendie ou des chocs électriques.

Ne pas placer d'objets lourds sur le projecteur.

- Cela peut déséquilibrer le projecteur et le faire tomber, ce qui peut entraîner des dommages ou des blessures.

Ne pas court-circuiter, chauffer ou démonter les piles, et ne pas les mettre dans l'eau ou dans le feu.

- Sinon, les piles risqueront de surchauffer, de fuir, d'exploser ou de prendre feu, et donc de causer des brûlures ou d'autres blessures.

Lorsqu'on insère les piles, veiller à ce que les polarités (+ et -) soient bien respectées.

- Si l'on insère les piles incorrectement, elles risqueront d'exploser ou de fuir, ce qui peut causer un incendie, des blessures ou une contamination du logement des piles et de la zone environnante.

Utiliser uniquement les piles spécifiées.

- Si l'on utilise des piles incorrectes, elles risqueront d'exploser ou de fuir, ce qui peut causer un incendie, des blessures ou une contamination du logement des piles et de la zone environnante.

Isoler la pile à l'aide d'adhésif ou autre avant de la mettre au rebut.

- Si la pile entre en contact avec des objets métalliques ou d'autres piles, elle peut prendre feu ou éclater.

Ne pas peser de tout son poids sur ce projecteur.

- On risque de tomber ou de casser l'appareil, ce qui peut causer des blessures.
- Veiller tout particulièrement à ce que des enfants ne montent pas sur l'appareil.

Si l'on n'utilise pas le projecteur pendant une période prolongée, débrancher la fiche du cordon d'alimentation de la prise de courant.

- Si de la poussière s'accumule sur la fiche du cordon d'alimentation, l'humidité ainsi créée risquera d'endommager l'isolation, ce qui peut provoquer un incendie.
- Ce projecteur continue de consommer environ 5 W de courant, même lorsque l'alimentation électrique est coupée.

Débrancher la fiche du cordon d'alimentation de la prise de courant comme mesure de sécurité avant d'effectuer tout nettoyage.

- Sinon cela peut causer des chocs électriques.

Demander à un centre technique agréé de nettoyer l'intérieur du projecteur au moins une fois par an.

- S'il n'est pas nettoyé et que de la poussière s'accumule à l'intérieur du projecteur, cela peut causer un incendie ou des problèmes de fonctionnement.
- Il est recommandé de nettoyer l'intérieur du projecteur avant que la saison humide n'arrive. Demander au centre technique agréé le plus proche de nettoyer le projecteur lorsque cela est requis. Se renseigner auprès du centre technique agréé pour le coût du nettoyage.

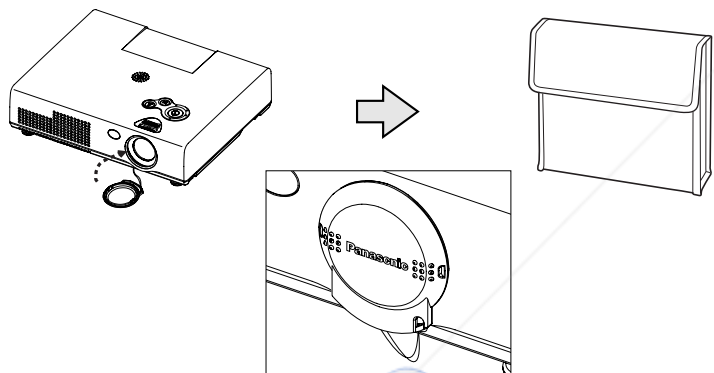
Nous faisons tous les efforts possibles afin de préserver l'environnement. Prière d'apporter l'appareil, s'il n'est pas réparable, à votre revendeur ou à un centre de recyclage.

Avant l'utilisation

Précaution à prendre lors du déplacement du projecteur

Veiller à fixer le capuchon d'objectif avant de déplacer le projecteur.

L'objectif de projection est très sensible aux vibrations et aux chocs. Lorsqu'on déplace le projecteur, utiliser la housse fournie. Lorsqu'on place le projecteur dans la housse, le placer de façon que l'objectif soit orienté vers le haut.



Fixer le capuchon d'objectif de façon que le logo "Panasonic" soit dans le sens indiqué sur l'illustration ci-dessus.

Avertissements concernant l'installation

Éviter de l'installer dans les endroits sujets à des vibrations ou à des chocs.

Les pièces internes peuvent être endommagées, ce qui peut causer des pannes ou des accidents.

Ne pas installer le projecteur près de lignes d'alimentation électrique à haute tension ou de moteurs.

Le projecteur peut être soumis à des interférences électromagnétiques.

Si le projecteur est installé au plafond, demander à un technicien qualifié de faire tous les travaux d'installation.

Il faut acheter le kit d'installation séparé (numéro de modèle: ET-PKM1).

En outre, tous les travaux d'installation doivent être exécutés uniquement par un technicien qualifié.

Si l'on utilise ce projecteur à un endroit élevé (au-dessus de 1 400 m), régler le "VENTILATEUR" sur "FORT" (se référer à la page 43).

Sinon, des anomalies pourront se produire.

Notes sur l'utilisation

Afin d'obtenir la meilleure qualité d'image

Fermer les rideaux ou les volets de toutes les fenêtres et éteindre les lampes fluorescentes situées à proximité de l'écran afin que la lumière extérieure ou la lumière des lampes intérieures n'éclaire pas l'écran.

Ne pas toucher aux surfaces de l'objectif avec les mains nues.

Si la surface de l'objectif est salie par des empreintes digitales ou autre, ceci sera agrandi et projeté sur l'écran. D'ailleurs, lorsque le projecteur n'est pas utilisé, rétracter l'objectif, puis la couvrir à l'aide du capuchon d'objectif.

À propos de l'écran

N'appliquer aucun produit volatil qui risque de décolorer l'écran, et veiller à ce que l'écran ne soit pas sale ou endommagé.

A propos de la lampe

Il est possible qu'il faille remplacer la lampe plus tôt en raison de facteurs variables comme les caractéristiques de la lampe, des conditions d'utilisation et un environnement d'installation particuliers, en particulier si elle est utilisée de façon continue pendant plus de 10 heures ou si l'alimentation est fréquemment mise en et hors circuit.

À propos de l'affichage à cristaux liquides

L'affichage à cristaux liquides du projecteur est fabriqué en utilisant une technologie de très haute précision permettant d'obtenir des images très détaillées. Parfois, il est possible que des pixels non actifs apparaissent sur l'écran sous forme de points fixes bleus, verts ou rouges.

Bien noter que ceci n'affecte pas le fonctionnement du LCD.

Remplacement du bloc de lampe

AVERTISSEMENT

Le bloc de lampe ne devrait être remplacé que par un technicien qualifié.

Lors du remplacement de la lampe, la laisser refroidir pendant au moins une heure avant de la manipuler.

- Le couvercle de la lampe devient très chaud, et on risque de se brûler si on le touche.

Notes sur le remplacement du bloc de lampe

- La lampe produisant la lumière est en verre; il ne faut donc pas la laisser tomber ou la cogner contre des objets rigides, car elle risquerait d'éclater. Faire bien attention lorsqu'on manipule la lampe.
- Jeter la lampe usagée de la même manière qu'une lampe fluorescente.
- Il faut utiliser un tournevis Phillips pour déposer le bloc de lampe.

REMARQUE:

- Le projecteur n'est pas fourni avec un bloc de lampe de rechange. Demander les détails au revendeur. Numéro de produit du bloc de lampe: **ET-LAM1**

ATTENTION:



- Ne pas utiliser un bloc de lampe avec un numéro de pièce autre que celui indiqué ci-dessus.

Période de remplacement du bloc de lampe

La lampe est un produit qui doit être remplacé. Même si la durée de vie complète de l'ampoule n'est pas encore épuisée, la luminosité de la lampe diminuera progressivement. Il faut donc remplacer périodiquement la lampe. L'intervalle de remplacement de la lampe prévu est de 2 000 heures; il est toutefois possible qu'il faille remplacer la lampe avant ce délai en raison d'éléments variables comme les caractéristiques particulières de la lampe, les conditions d'utilisation et l'environnement d'installation. Il est recommandé de toujours avoir un bloc de lampe de rechange prêt à l'emploi. La lampe s'éteindra automatiquement après environ 10 minutes lorsque la limite de 2 000 heures d'utilisation est atteinte, car le risque d'explosion de la lampe devient beaucoup plus grand passé cette limite.

REMARQUE:

- Les heures d'utilisation expliquées ci-dessus concernent l'utilisation lorsque le réglage "FORTE" a été sélectionné pour "PUIS.LAMPE" dans le menu "OPTION2". Si le réglage "FAIBLE" est sélectionné, la luminosité de la lampe sera moindre et la durée de vie de la lampe sera allongée.
- Bien que le délai de 2 000 heures soit l'intervalle de remplacement prévu, l'obtention de cette durée n'est pas couverte par la garantie.

	Affichage à l'écran	Indicateur LAMP
		
Plus de 1 800 heures	Affiché pendant 30 secondes. L'affichage disparaît si l'on appuie sur n'importe quelle touche.	S'allume en rouge pendant que l'image est projetée et en mode d'attente.
Plus de 2 000 heures	Reste affiché jusqu'à ce qu'une touche quelconque soit pressée.	

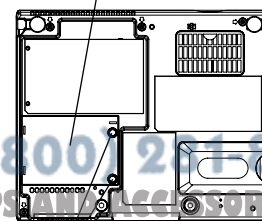
Méthode de remplacement du bloc de lampe

REMARQUE:

- Si le temps d'utilisation de la lampe a dépassé 2 000 heures (lorsque "PUIS.LAMPE" a été mis sur "FORTE"), le projecteur passe en mode d'attente après environ dix minutes de fonctionnement. Dès lors, faire les étapes ⑦ à ⑪ à la page suivante dans les 10 minutes.

- ① **Débrancher le cordon d'alimentation du projecteur en procédant comme indiqué à la page 24, puis vérifier si la zone environnant le bloc de lampe s'est bien refroidie.**
- ② **Utiliser un tournevis Phillips pour desserrer les vis de fixation du couvercle du bloc de lampe sur le fond du projecteur, puis enlever le couvercle du bloc de lampe.**

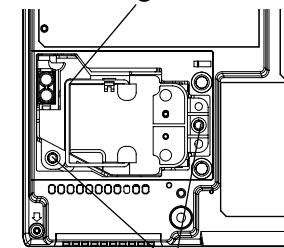
Couvercle du bloc de lampe



Vis de fixation du couvercle du bloc de lampe

- ③ **Utiliser un tournevis Phillips pour desserrer les deux vis de fixation du bloc de lampe jusqu'à ce que les vis tournent librement. Tenir la poignée du bloc de lampe et tirer doucement pour le sortir du projecteur.**

Poignée



Vis de fixation du bloc de lampe

- ④ **Insérer le nouveau bloc de lampe tout en s'assurant que le sens d'insertion est correct, puis utiliser un tournevis Phillips pour resserrer fermement les vis de fixation du bloc de lampe.**

- ⑤ Installer le couvercle du bloc de lampe, puis utiliser un tournevis Phillips pour resserrer fermement les vis de fixation du couvercle du bloc de lampe.

REMARQUE:

- S'assurer de bien installer le bloc de lampe et le couvercle du bloc de lampe. S'ils ne sont pas bien installés, cela peut déclencher le circuit de protection et le projecteur ne pourra pas être allumé.

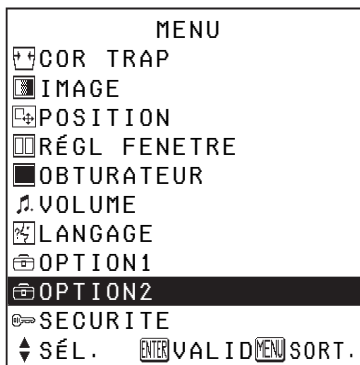
- ⑥ Brancher le cordon d'alimentation.

- ⑦ Appuyer sur la touche POWER pour projeter une image sur l'écran.

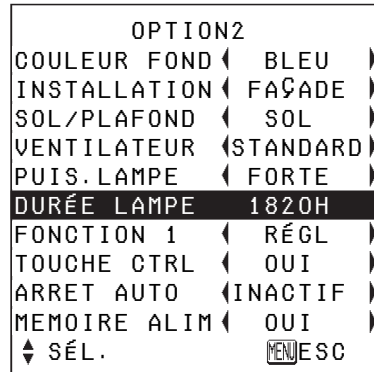
REMARQUE:

- Si le cordon d'alimentation a été débranché pendant la projection lorsque le projecteur a été utilisé la fois précédente, la projection s'enclenchera après qu'on ait branché le cordon d'alimentation (lorsque "MEMOIRE ALIM" dans le menu "OPTION2" est réglé sur "OUI"). Pour plus de détails, se reporter à la page 44.

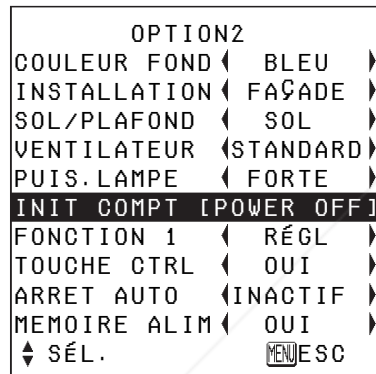
- ⑧ Appuyer sur la touche MENU pour faire apparaître le "MENU PRINCIPAL", puis appuyer sur la touche ▲ ou ▼ pour sélectionner "OPTION2".



- ⑨ Appuyer sur la touche ENTER pour faire apparaître le menu "OPTION2", puis appuyer sur la touche ▲ ou ▼ pour sélectionner "DURÉE LAMPE".



- ⑩ Maintenir la touche ENTER enfoncée pendant environ 3 secondes.



"DURÉE LAMPE" changera à "INIT COMPT [POWER OFF]".

REMARQUE:

- Si la touche MENU est pressée, l'écran de remise à zéro de la durée de lampe sera annulé.

Couper l'alimentation électrique.

Le temps d'utilisation total du bloc de lampe est alors remis à zéro. Pour plus de détails concernant la mise hors tension, se reporter à la page 24.

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